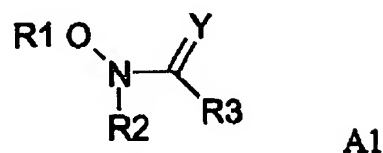


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WHAT IS CLAIMED IS:

1. Compounds of the general formula A1



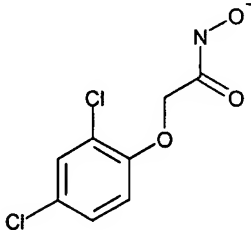
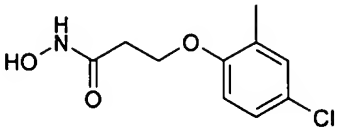
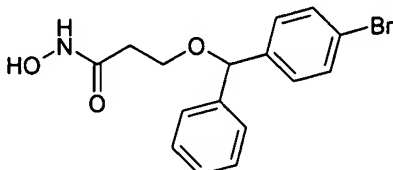
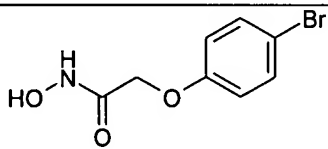
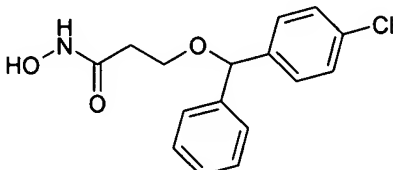
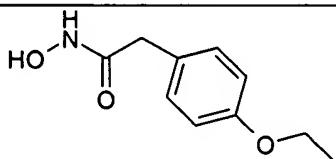
wherein

- Y represents O, S or NR₄;
- R₁, R₂, R₃ and R₄ are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A1 via a C atom or a hetero atom;

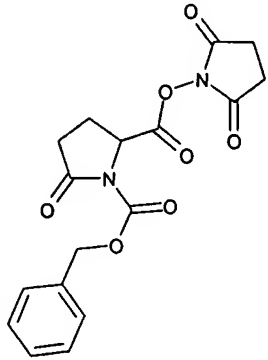
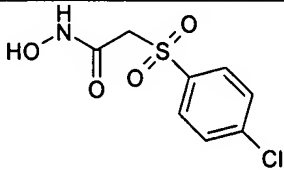
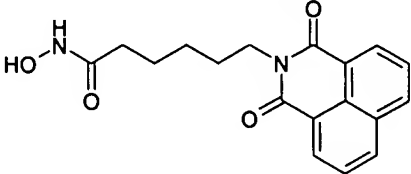
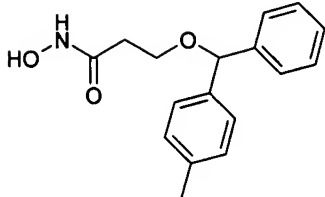
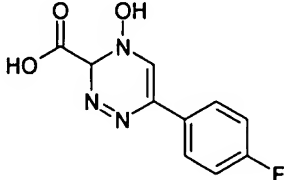
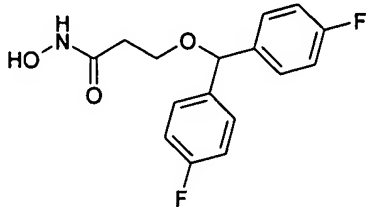
and tautomers, stereoisomers of the compounds of the general formula A1 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

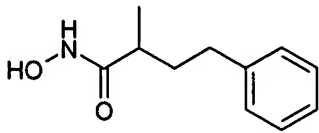
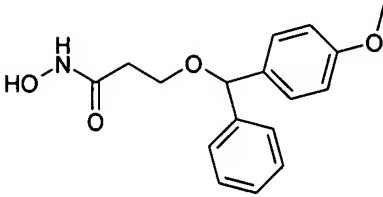
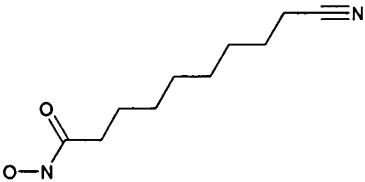
2. The compounds of the general formula A1 according to claim 1 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A1 according to Table 1, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

Table 1:

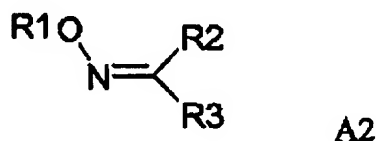
Compound ID.	Structure
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A1.002	
A1.003	
A1.004	
A1.005	
A1.006	

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A1.007	
A1.008	
A1.009	
A1.010	
A1.011	
A1.012	

A1.013	
A1.014	
A1.015	

3. Compounds of the general formula A2



wherein

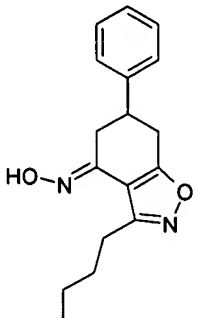
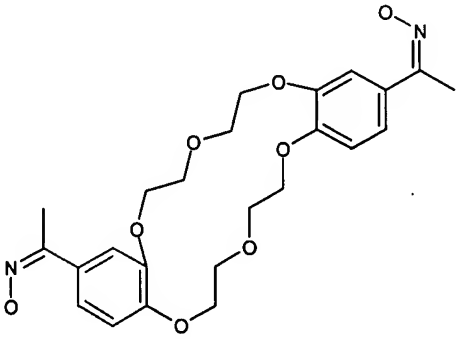
- R1, R2 and R3 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A2 via a C atom or a hetero atom;

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- and tautomers, stereoisomers of the compounds of the general formula A2 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

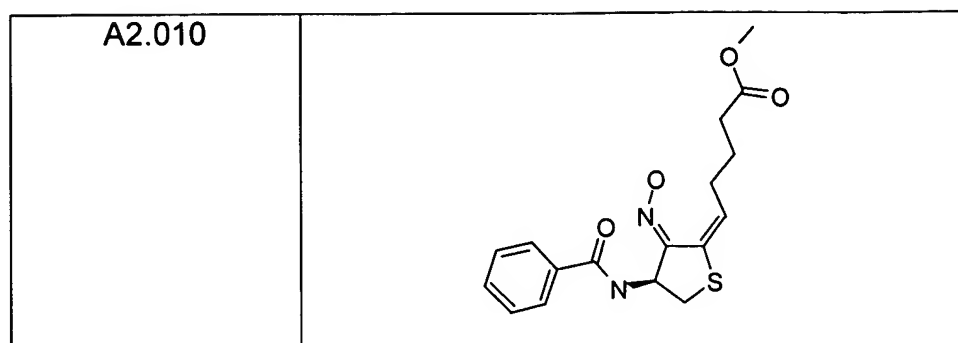
4. The compounds of the general formula A2 according to claim 2 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A2 according to Table 2, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

Table 2:

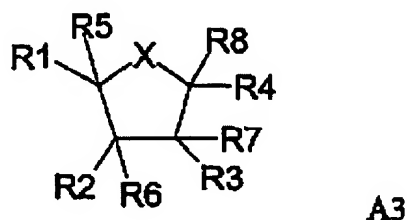
Compound ID.	Structure
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A2.002	

A2.003	
A2.004	
A2.005	
A2.006	
A2.007	
A2.008	

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5. Compounds of the general formula A3



wherein

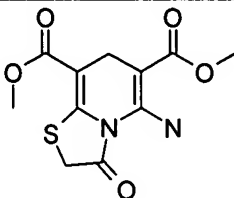
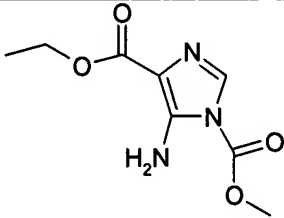
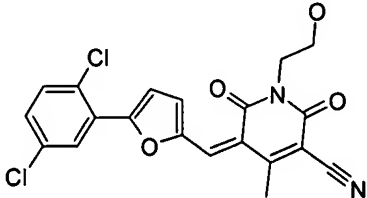
- X may represent O, S, NH or NR⁹;
- the basic five-membered ring structure may additionally contain up to three further hetero atoms corresponding to the definition of X, which may be identical or different;
- the basic five-membered ring structure may contain zero to two double bonds;
- R₁ to R₉ are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and

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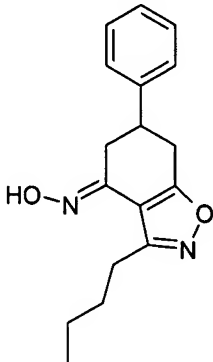
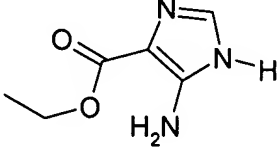
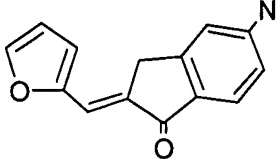
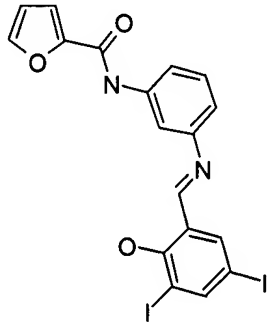
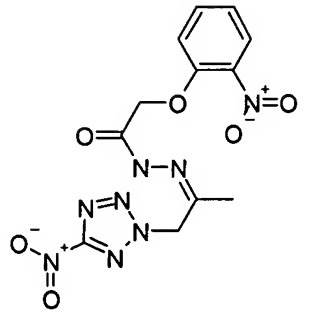
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A3 via a C atom or a hetero atom;
- and tautomers, stereoisomers of the compounds of the general formula A3 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

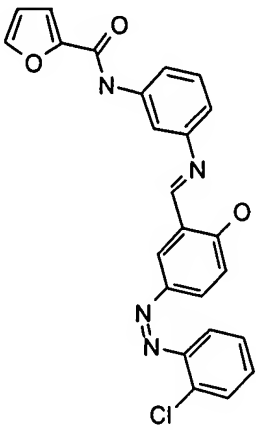
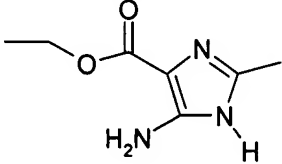
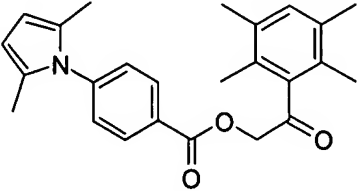
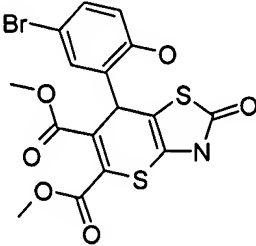
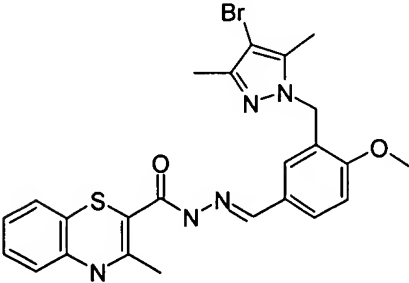
6. The compounds of the general formula A3 according to claim 5 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A3 according to Table 3, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

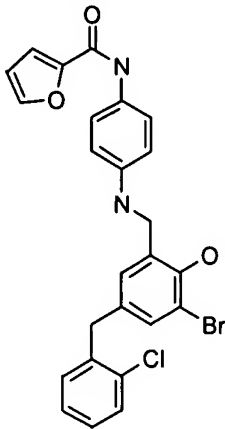
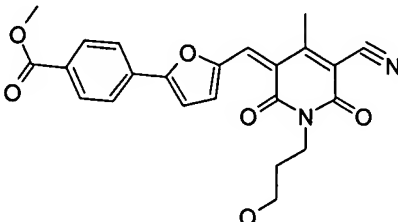
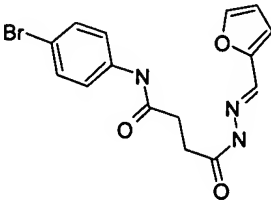
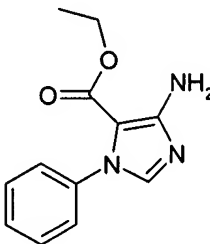
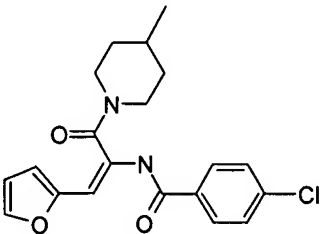
Table 3:

Compound ID.	Structure
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A3.002	
A3.003	

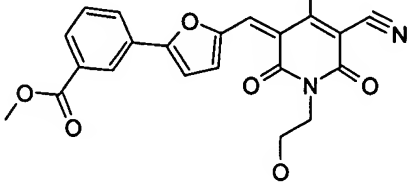
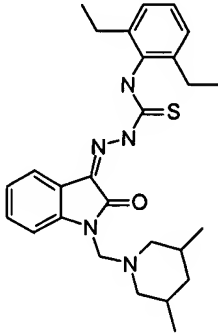
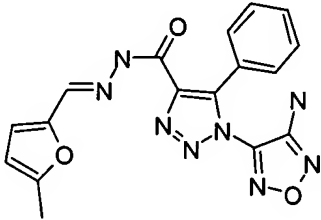
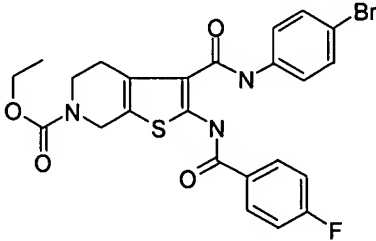
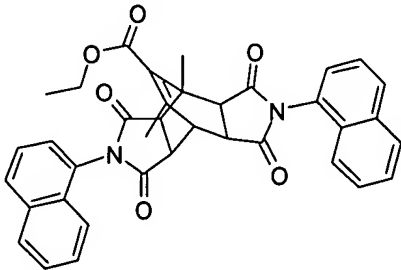
P29677.S01

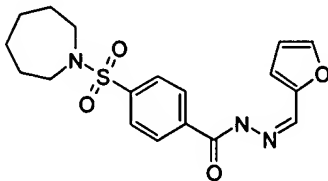
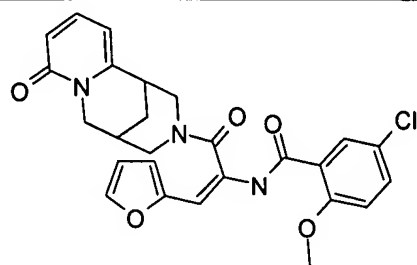
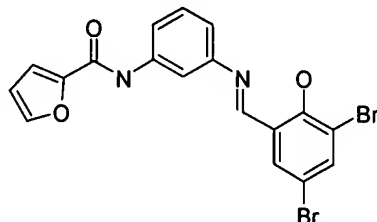
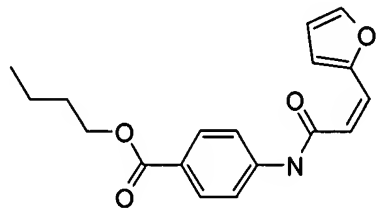
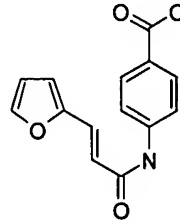
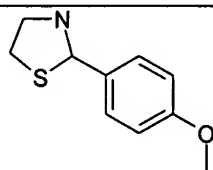
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A3.008	
A3.009	
A3.010	

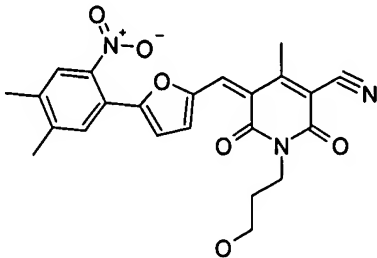
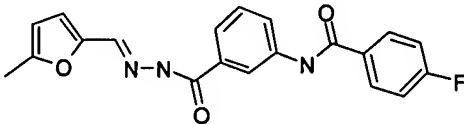
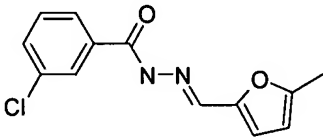
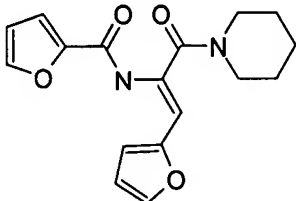
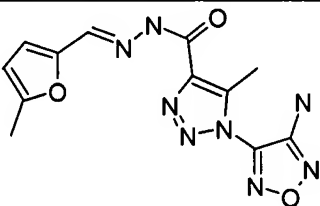
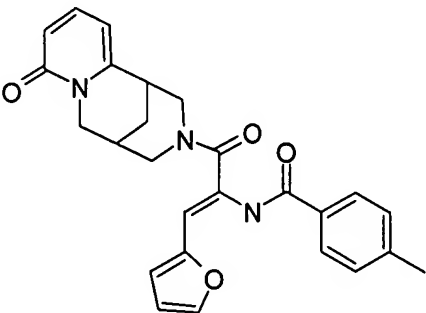
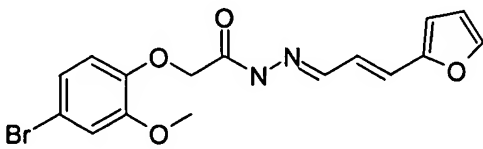
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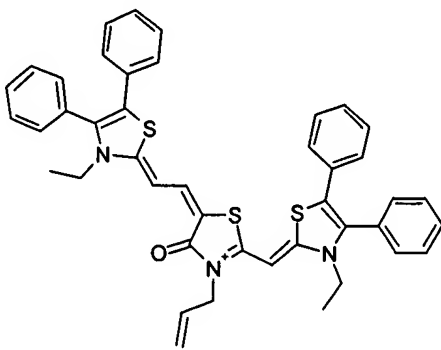
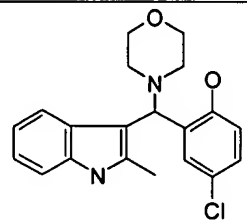
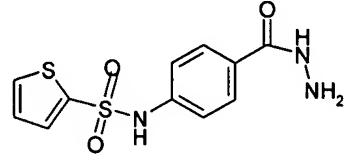
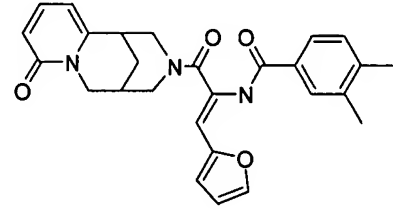
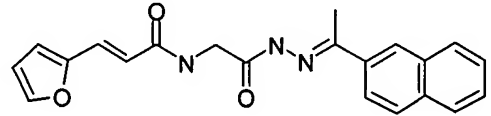
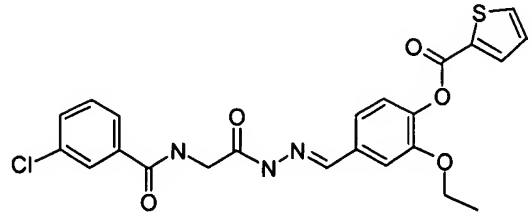
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A3.018	
A3.019	
A3.020	
A3.022	

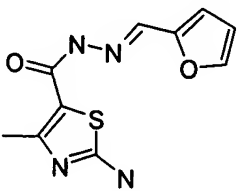
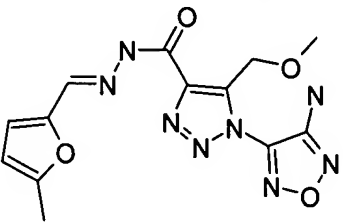
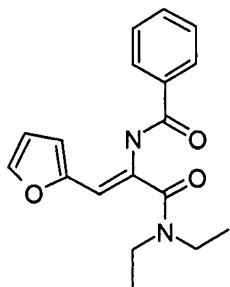
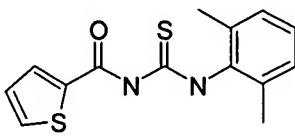
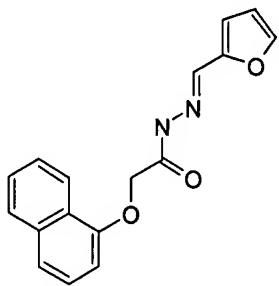
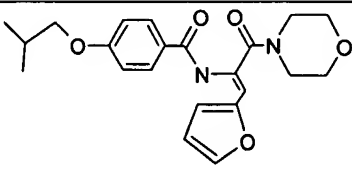
P29677.S01

A3.023	
A3.024	
A3.025	
A3.026	
A3.027	

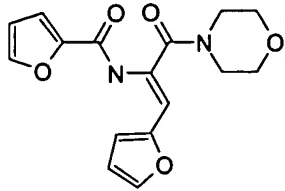
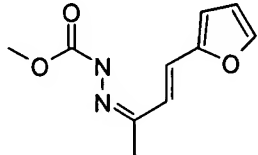
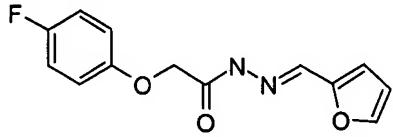
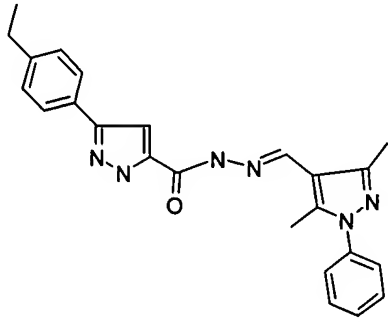
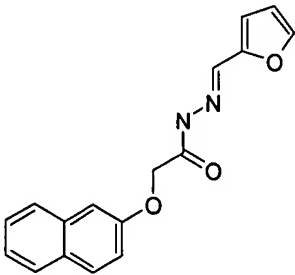
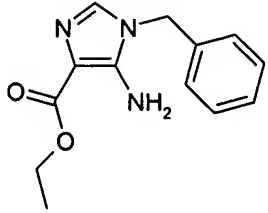
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A3.035	

A3.037	
A3.038	
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A3.040	
A3.041	
A3.042	
A3.043	

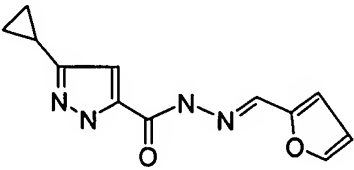
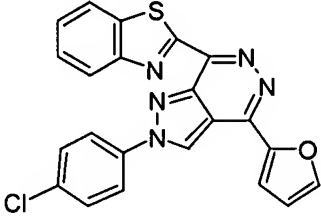
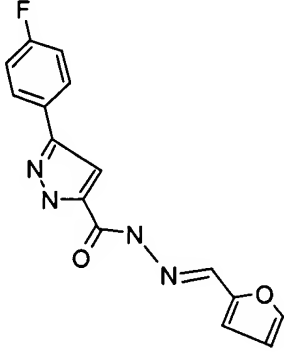
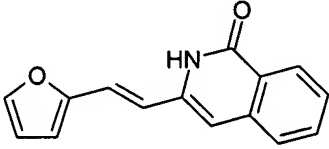
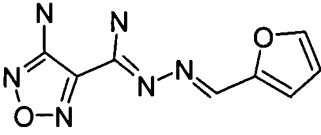
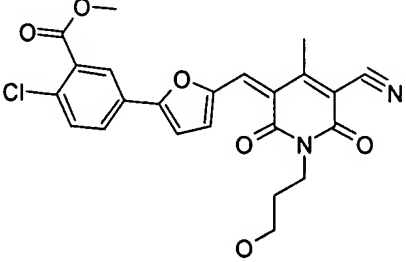
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A3.046	
A3.047	
A3.048	
A3.050	
A3.051	

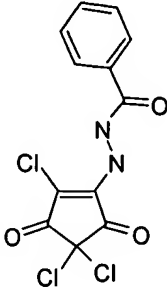
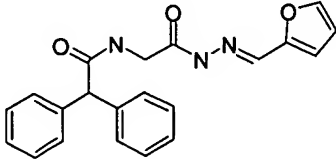
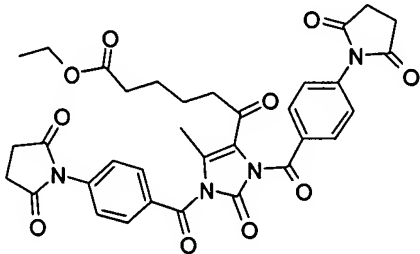
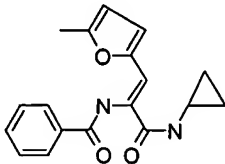
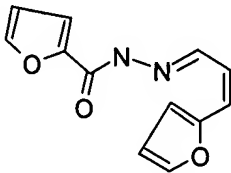
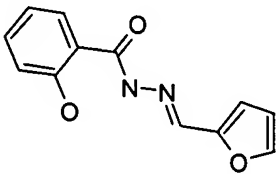
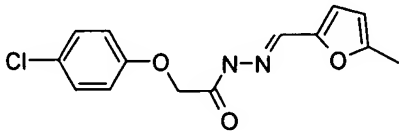
A3.052	
A3.053	
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A3.056	
A3.057	

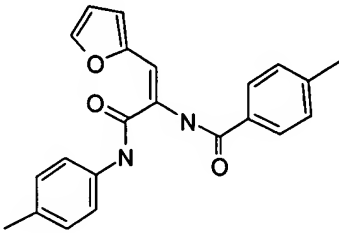
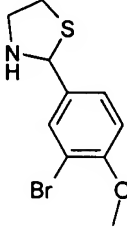
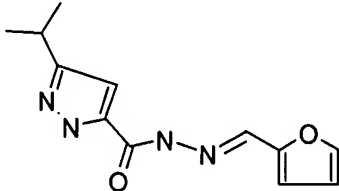
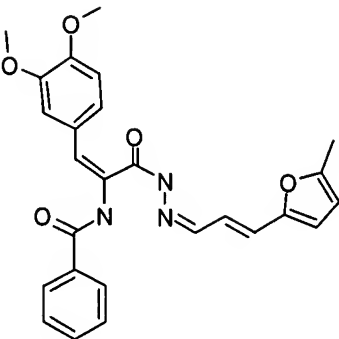
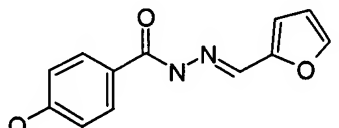
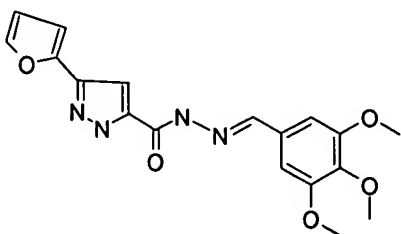
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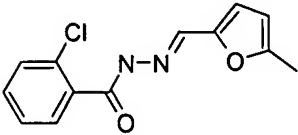
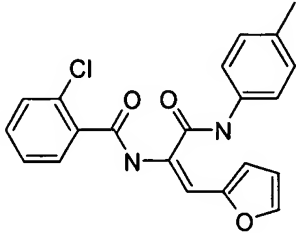
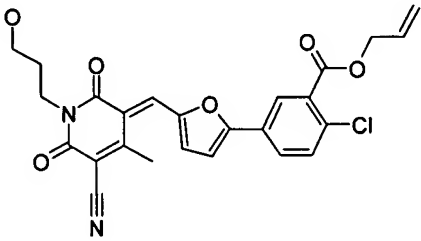
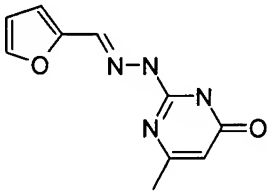
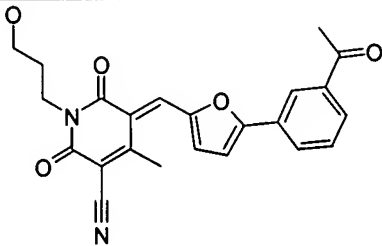
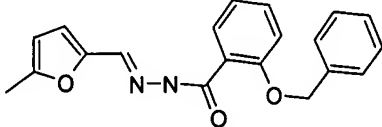
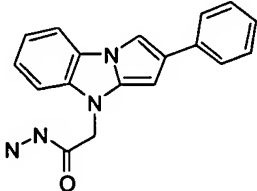
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A3.059	
A3.060	
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A3.062	
A3.063	

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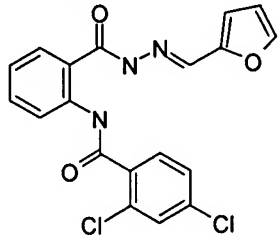
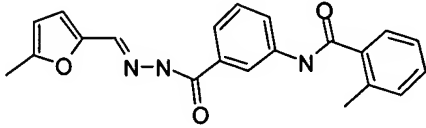
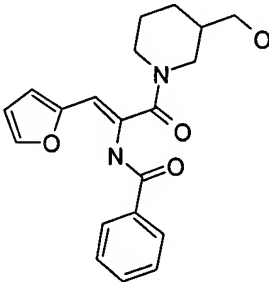
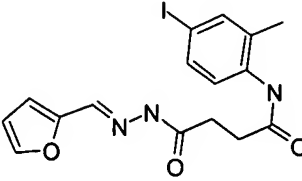
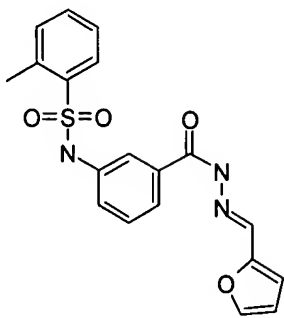
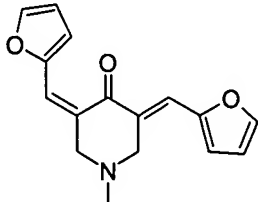
A3.064	
A3.065	
A3.066	
A3.067	
A3.068	
A3.069	

A3.070	 <chem>O=C1C(=O)C(Cl)(Cl)C1=NN(=O)C(=O)c2ccccc2</chem>
A3.071	 <chem>O=C1C(=O)C(=O)N1C(=O)CCN=NC=Cc2ccoc2</chem>
A3.072	 <chem>CCOC(=O)CCCCC(=O)N1C(=O)C2=CC=C(C=C2N1C(=O)C3=CC=C(C=C3)N(C3=CC=CC=C3)C3=CC=CC=C3)C(=O)N4C(=O)CCN4C(=O)C5=CC=C(C=C5)N(C6=CC=CC=C6)C6=CC=CC=C6</chem>
A3.073	 <chem>O=C1C(=O)C(=O)N1C(=O)CCN=NC=Cc2ccoc2</chem>
A3.074	 <chem>O=C1C(=O)C(=O)N1C(=O)CCN=NC=Cc2ccoc2</chem>
A3.075	 <chem>O=C1C(=O)C(=O)N1C(=O)CCN=NC=Cc2ccoc2</chem>
A3.076	 <chem>O=C1C(=O)C(=O)N1C(=O)CCN=NC=Cc2ccoc2</chem>

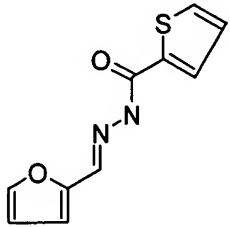
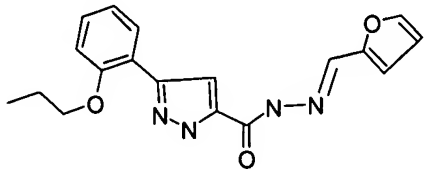
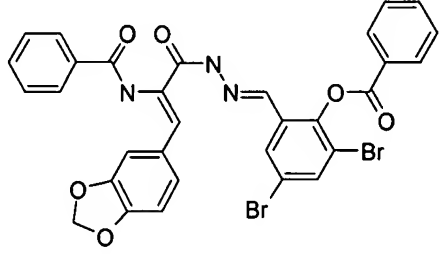
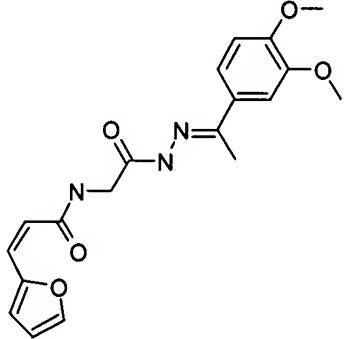
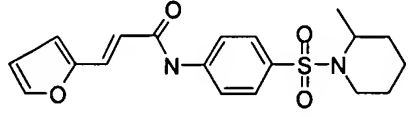
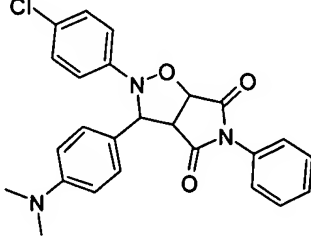
A3.077	
A3.078	
A3.080	
A3.081	
A3.082	
A3.083	

A3.084	 <chem>CC1=CC=C(O1)/N=N/C(=O)c2ccccc2Cl</chem>
A3.086	 <chem>CC1=CC=C(O1)/N=N/C(=O)N(C2=CC=C(C)C=C2)C(=O)c3ccccc3Cl</chem>
A3.087	 <chem>CC1=C(C(=O)N(CCOC)C(=O)C1#N)C=Cc2cc(Oc3ccc(Cl)cc3)cc2</chem>
A3.088	 <chem>CC1=CNC(=O)NC=C1/N=N/C2=CC=C(O2)C</chem>
A3.089	 <chem>CC1=C(C(=O)N(CCOC)C(=O)C1#N)C=Cc2cc(Oc3ccccc3)cc2</chem>
A3.090	 <chem>CC1=CC=C(O1)/N=N/C(=O)C(C2=CC=CC=C2)OC3=CC=CC=C3</chem>
A3.091	 <chem>C1=CC=C2C(=C1)N(C2CC(=O)NN)Cc3ccccc3</chem>

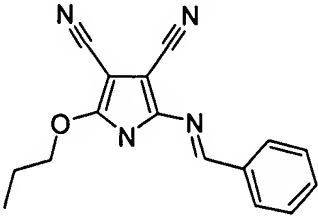
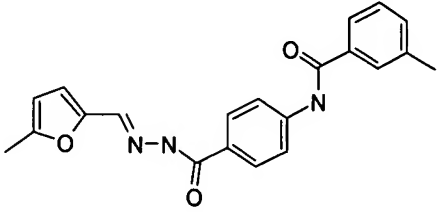
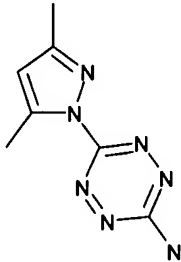
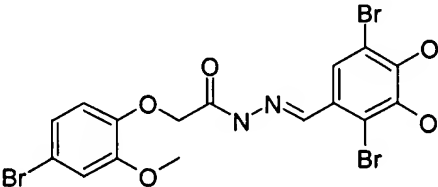
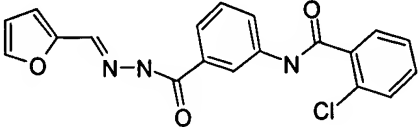
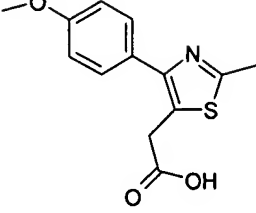
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A3.092	
A3.093	
A3.094	
A3.095	
A3.097	
A3.098	

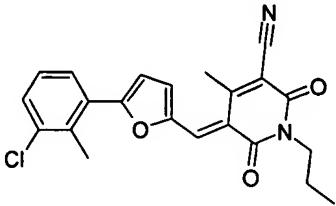
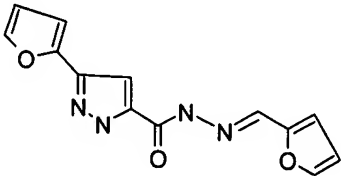
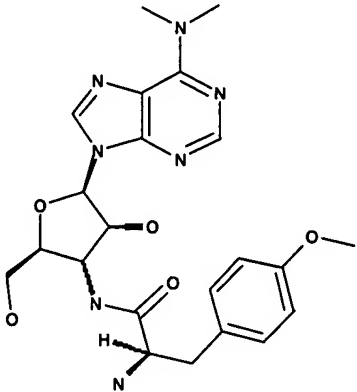
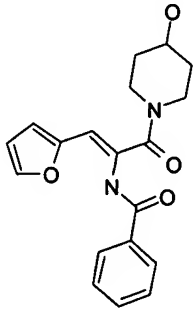
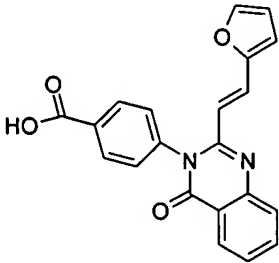
P29677.S01

A3.099	
A3.100	
A3.101	
A3.102	
A3.103	
A3.104	

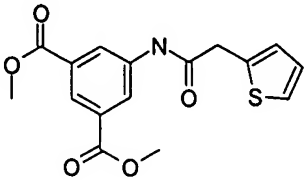
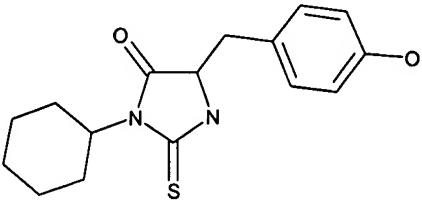
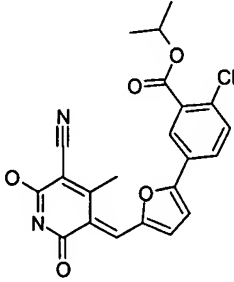
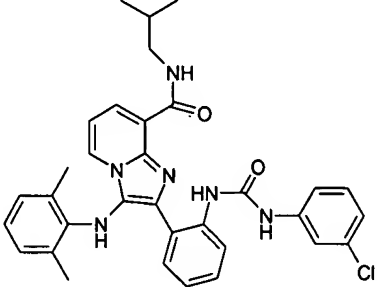
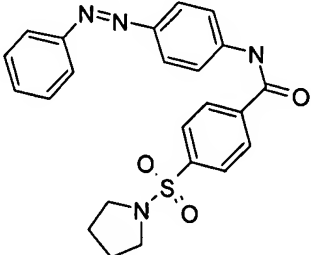
P29677.S01

A3.105	
A3.106	
A3.107	
A3.109	
A3.110	
A3.111	

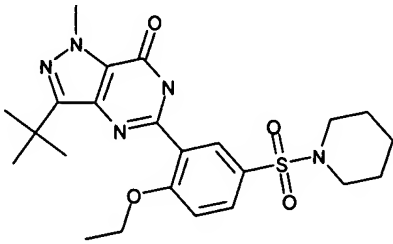
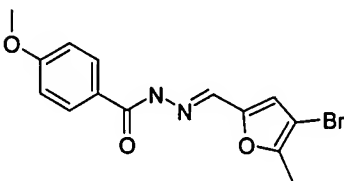
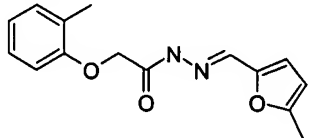
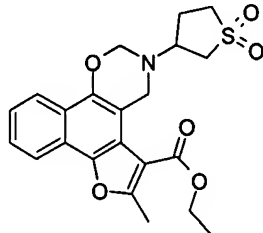
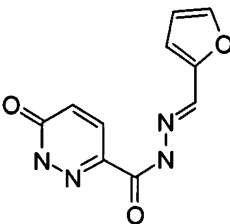
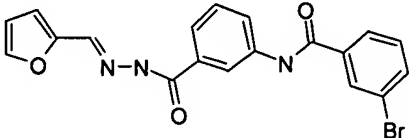
P29677.S01

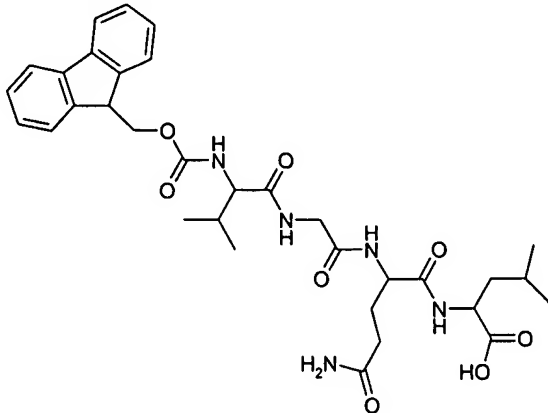
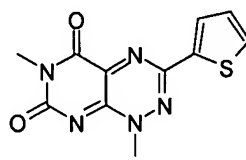
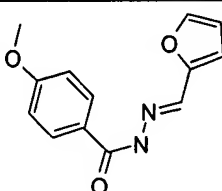
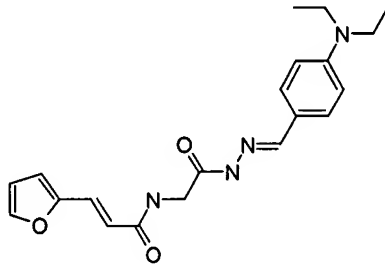
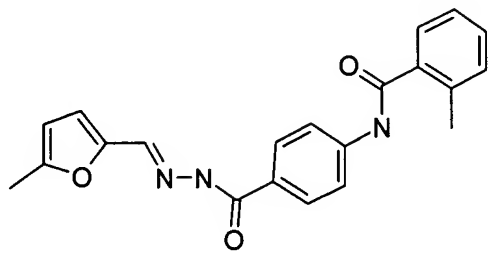
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A3.113	
A3.114	
A3.115	
A3.116	

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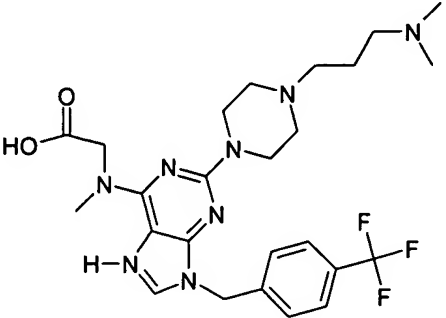
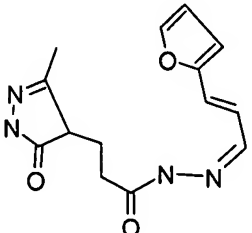
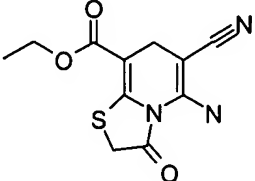
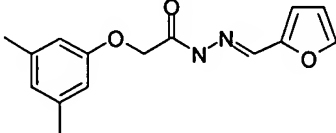
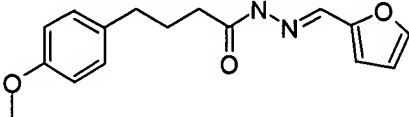
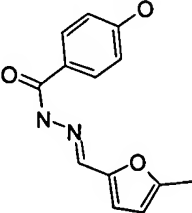
A3.117	
A3.118	
A3.120	
A3.121	
A3.122	

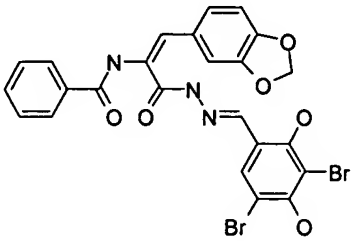
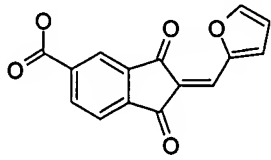
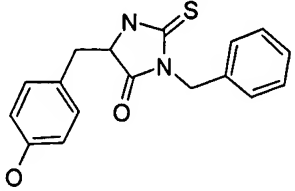
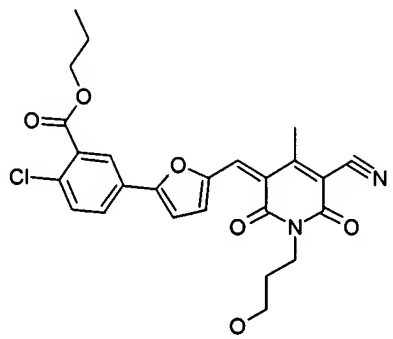
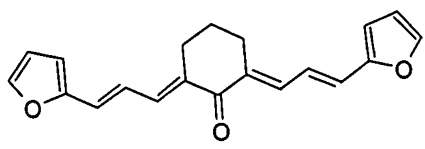
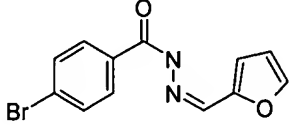
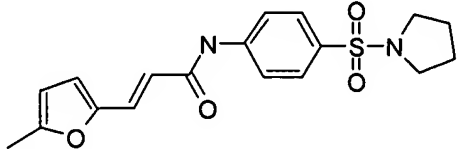
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A3.124	
A3.125	
A3.128	
A3.129	
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A3.131	

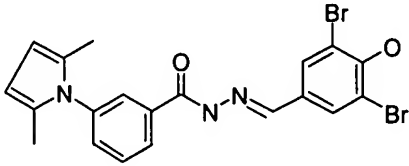
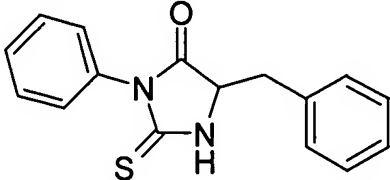
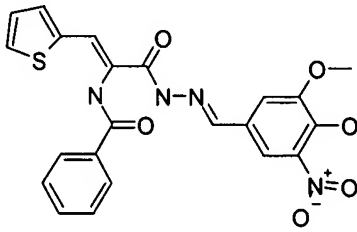
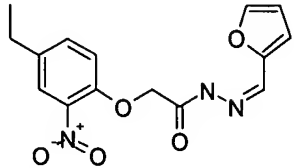
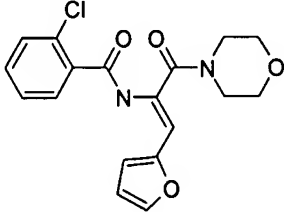
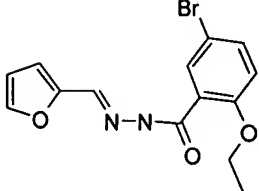
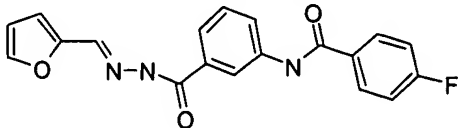
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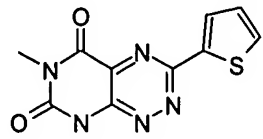
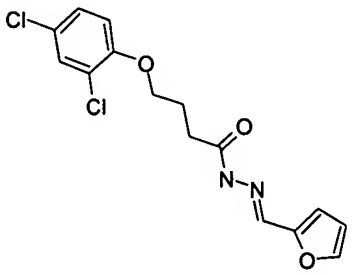
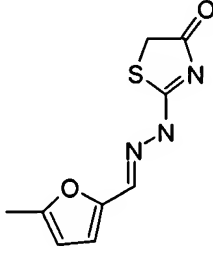
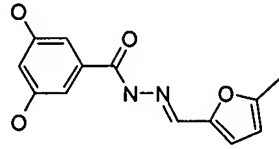
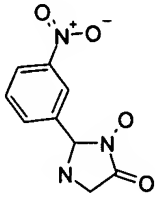
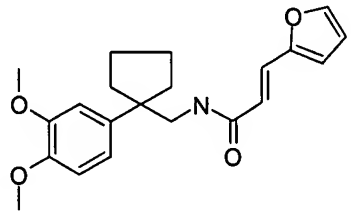
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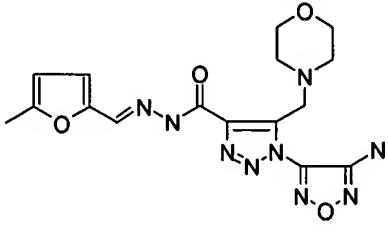
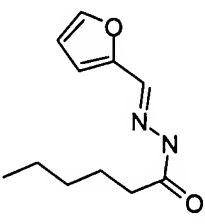
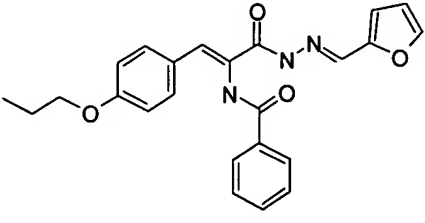
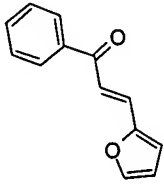
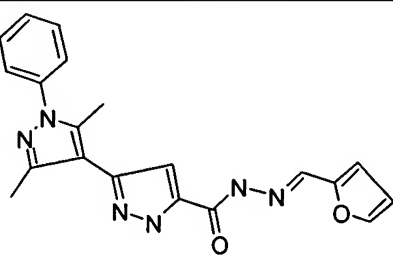
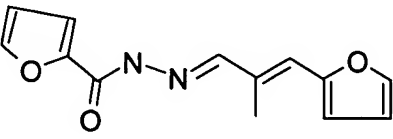
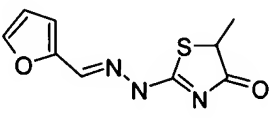
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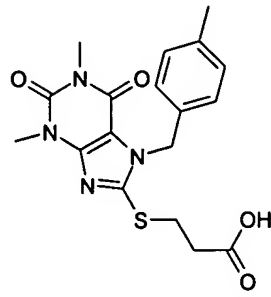
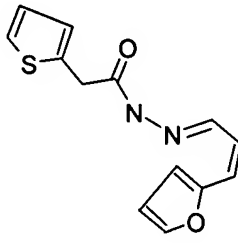
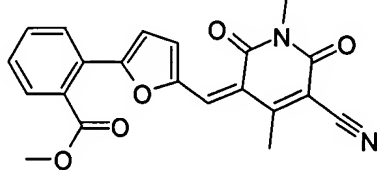
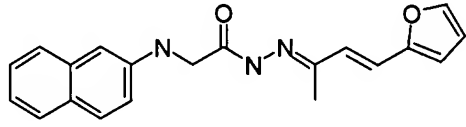
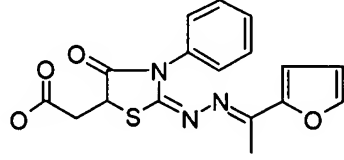
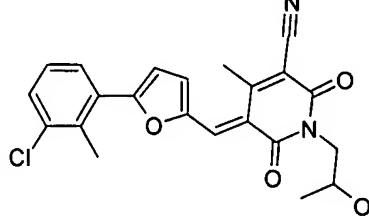
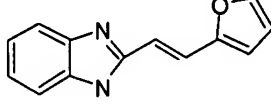
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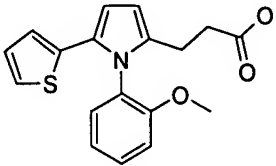
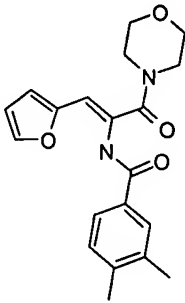
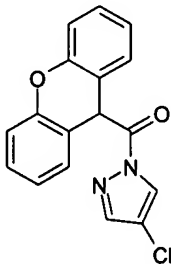
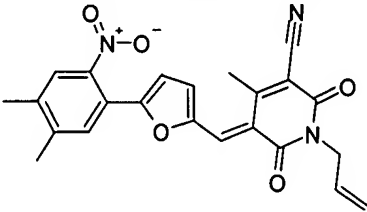
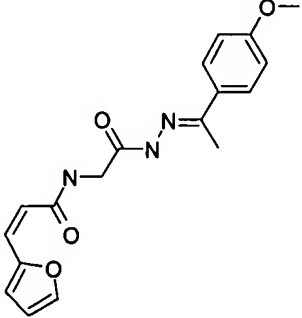
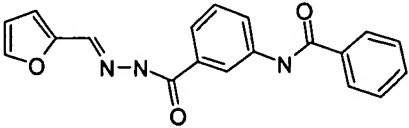
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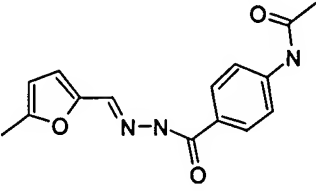
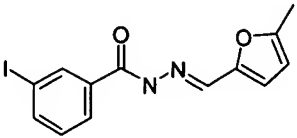
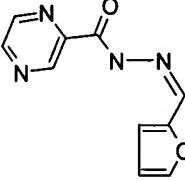
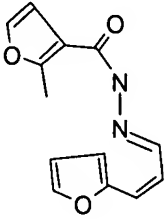
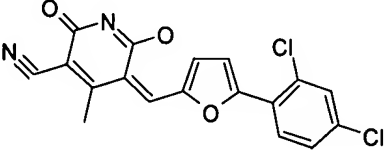
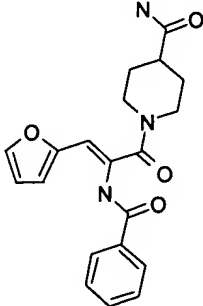
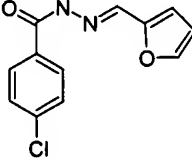
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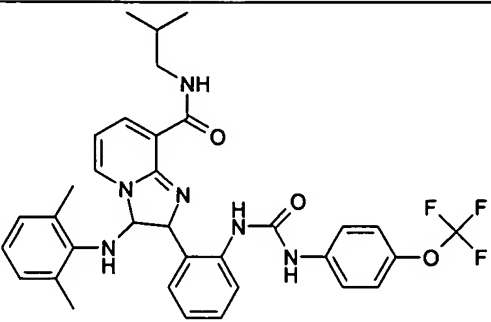
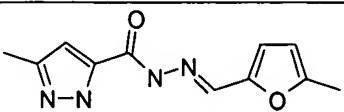
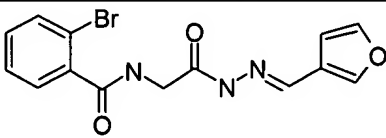
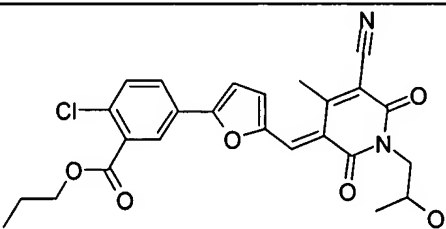
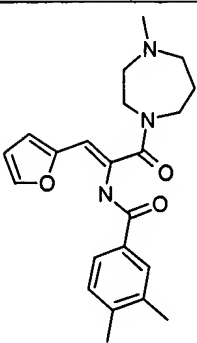
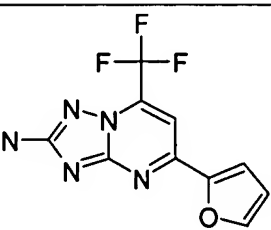
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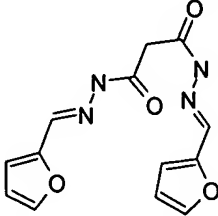
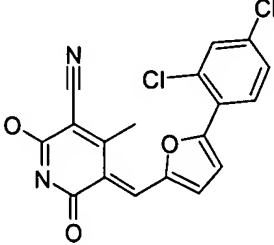
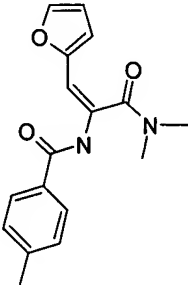
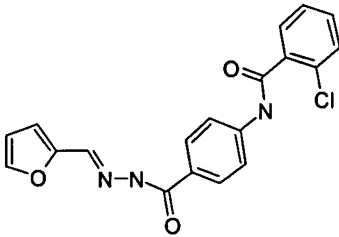
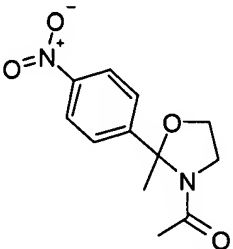
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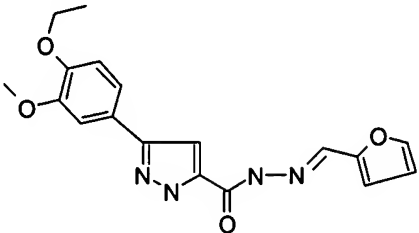
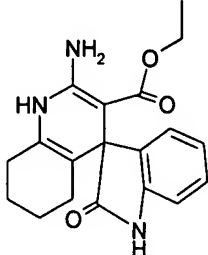
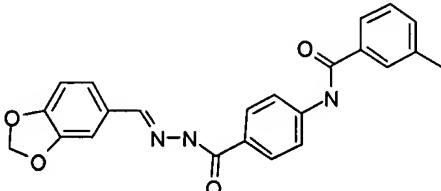
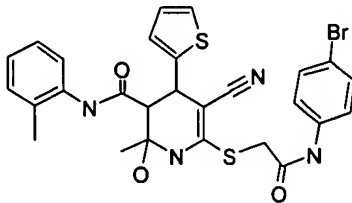
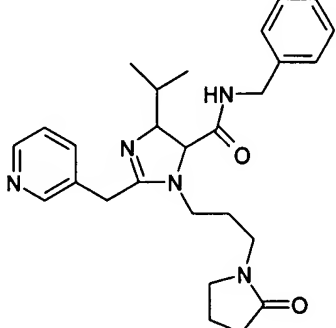
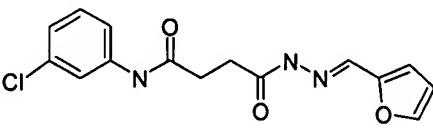
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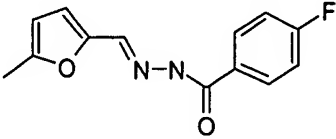
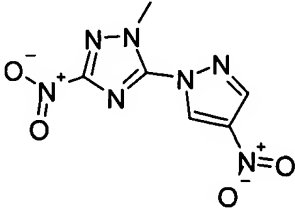
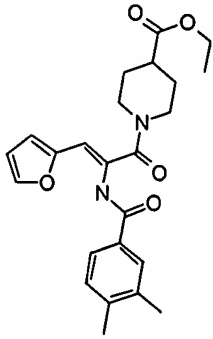
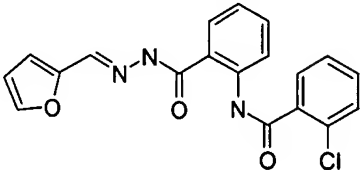
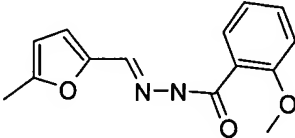
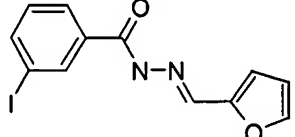
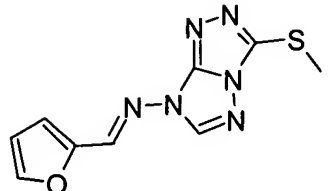
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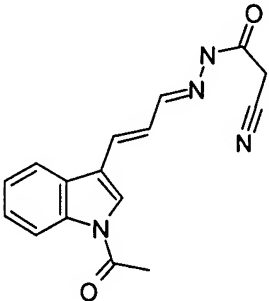
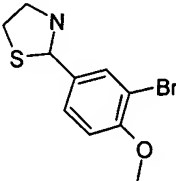
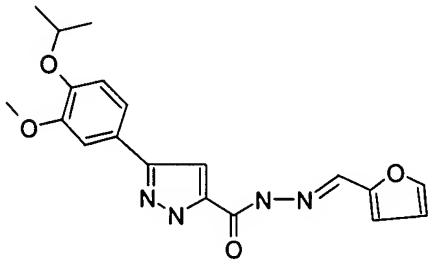
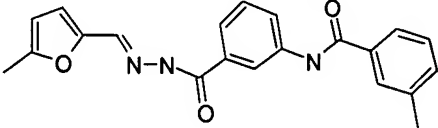
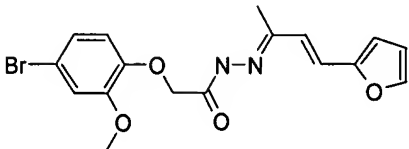
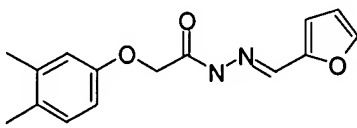
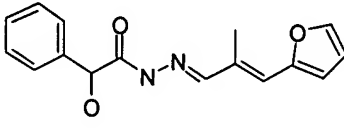
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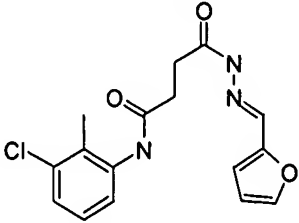
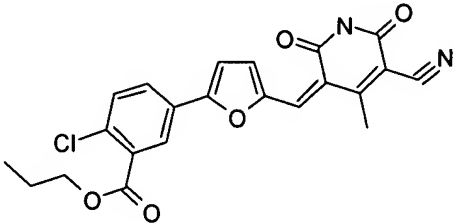
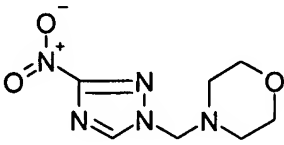
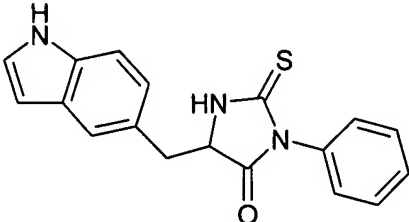
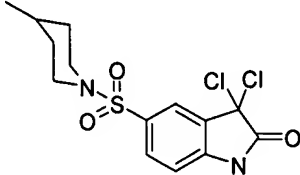
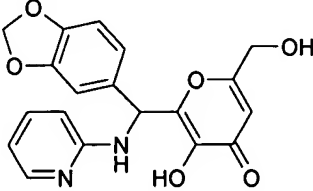
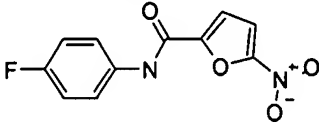
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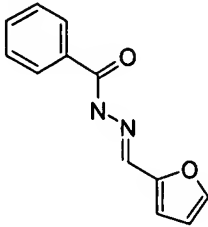
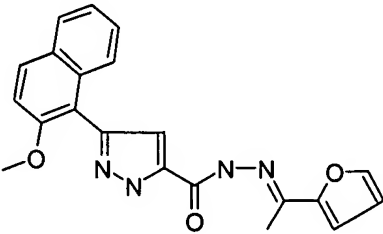
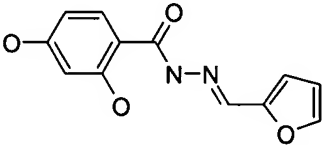
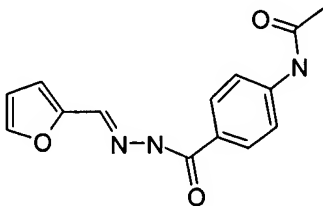
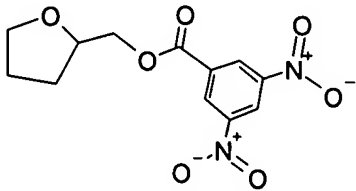
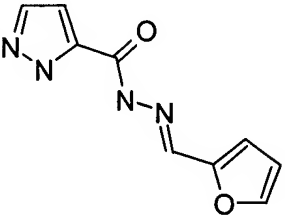
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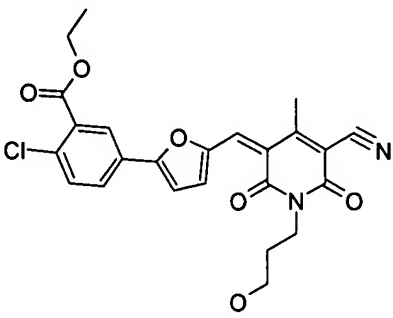
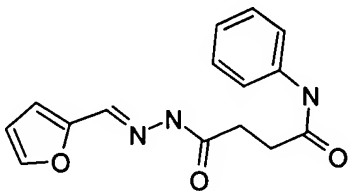
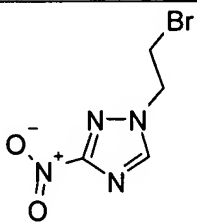
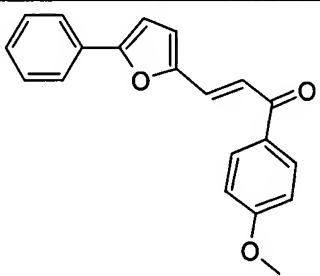
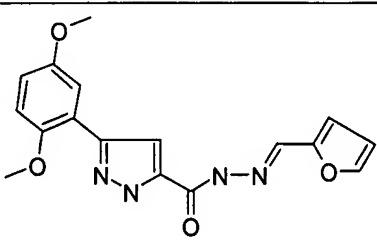
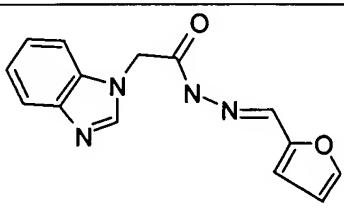
A3.207	 <chem>Cc1cc(oc1)/C=N/NC(=O)c2ccc(F)cc2</chem>
A3.208	 <chem>Cn1nn(C(=O)O)c1=C2N=CN=C2[N+](=O)[O-]</chem>
A3.209	 <chem>CCOC(=O)C1CCN(C1)C(=O)N2C(=O)C(=C2C3C=CC(OC3)/C=N/NC(=O)c4ccc(C)cc4)C5=CC=C(C)C=C5</chem>
A3.210	 <chem>Clc1ccc(cc1)C(=O)N2C(=O)C(=C2C3C=CC(OC3)/C=N/NC(=O)c4ccccc4)C5=CC=C(C)C=C5</chem>
A3.211	 <chem>Cc1cc(oc1)/C=N/NC(=O)c2ccc(OC)cc2</chem>
A3.212	 <chem>Ic1ccc(cc1)C(=O)N2C(=O)C(=C2C3C=CC(OC3)/C=N/NC(=O)c4ccccc4)C5=CC=C(C)C=C5</chem>
A3.213	 <chem>Cn1nn(C(=O)O)c1=C2N=CN=C2N3C=CN=C3N4C=CC(OC4)/C=N/NC(=O)c5ccc(OC)cc5</chem>

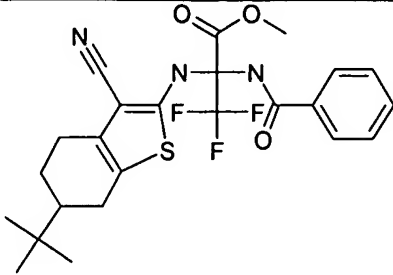
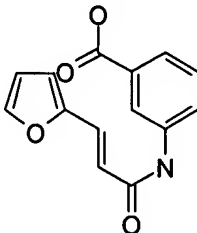
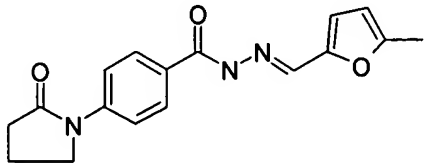
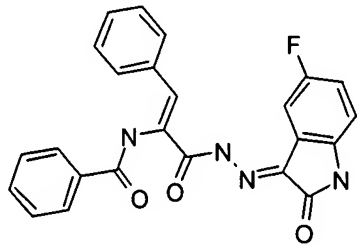
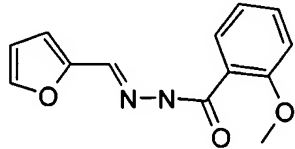
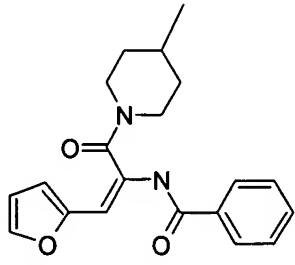
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A3.219	

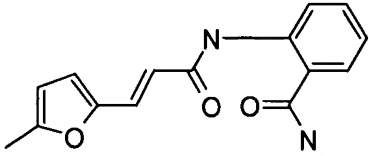
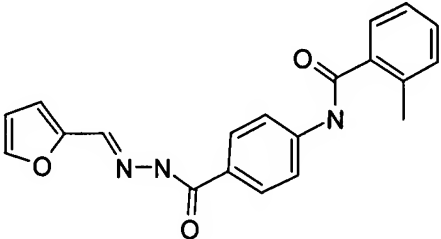
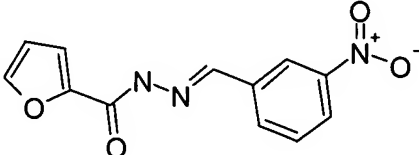
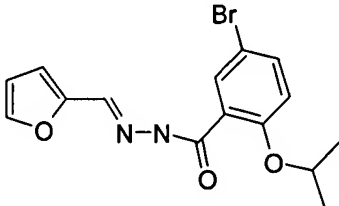
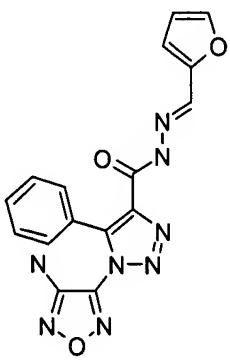
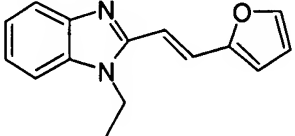
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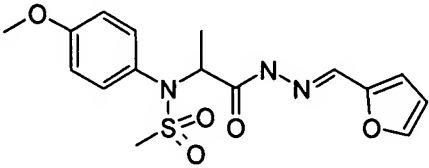
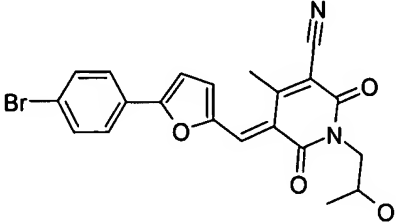
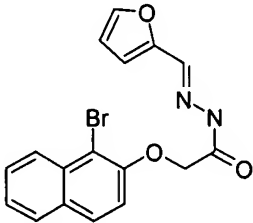
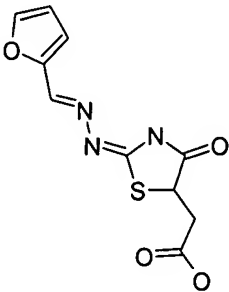
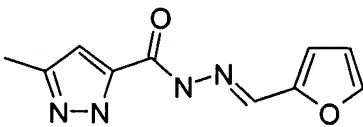
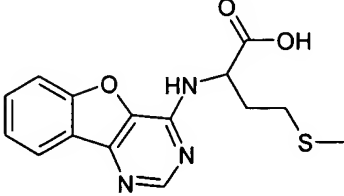
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A3.228	 <chem>COc1ccc2c(c1)c(c[nH]2)C(=O)N=N/C=C/c3ccoc3</chem>
A3.229	 <chem>O=C(N=N/C=C/c1ccoc1)c2cc(Cl)cc(Cl)c2</chem>
A3.230	 <chem>CC(=O)Nc1ccc(cc1)C(=O)N=N/C=C/c2ccoc2</chem>
A3.231	 <chem>[O-][N+](=O)c1ccc(cc1)C(=O)OCC2OCCO2</chem>
A3.232	 <chem>O=C(N=N/C=C/c1ccoc1)c2c[nH]cn2</chem>

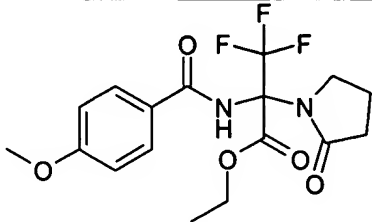
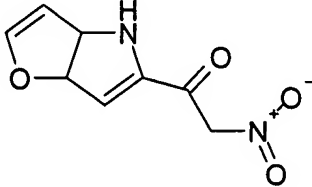
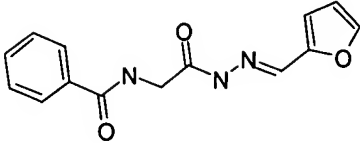
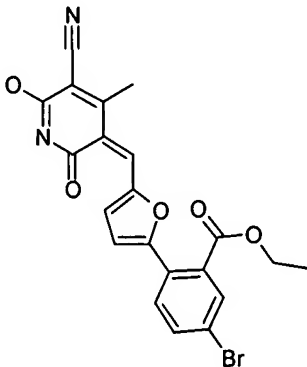
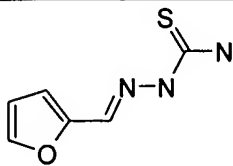
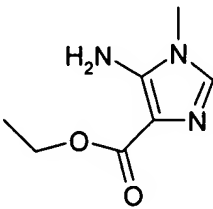
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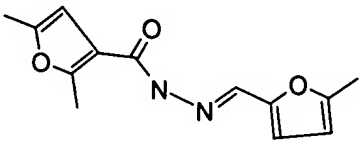
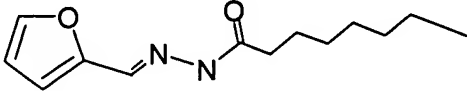
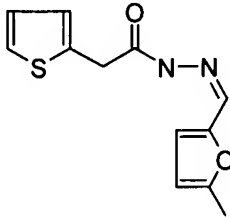
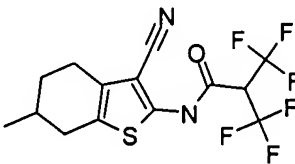
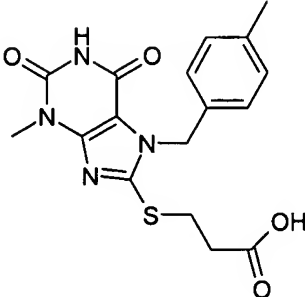
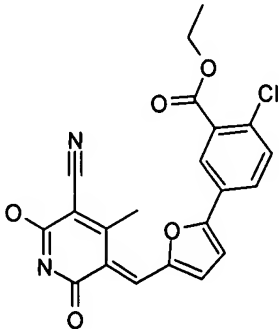
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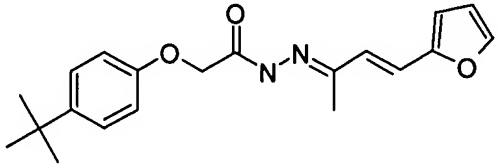
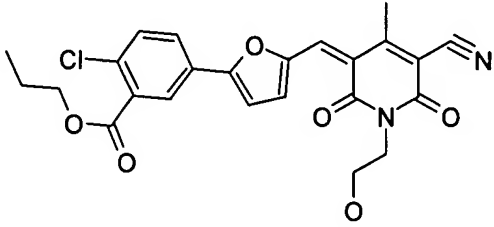
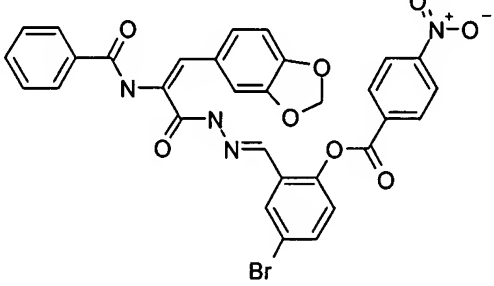
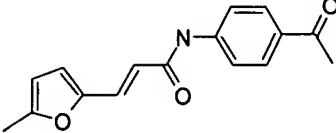
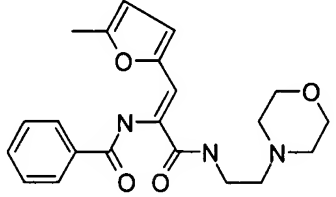
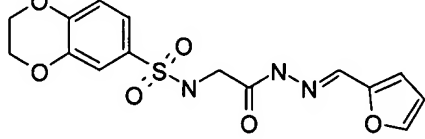
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A3.262	

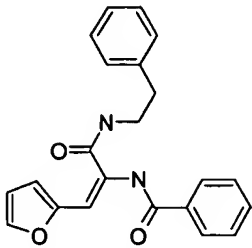
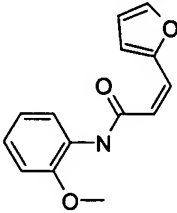
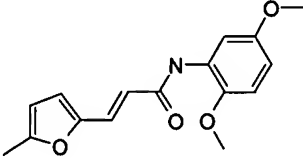
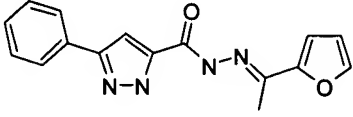
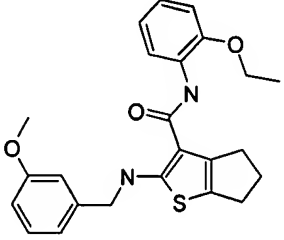
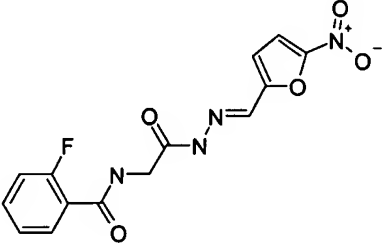
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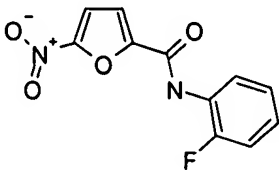
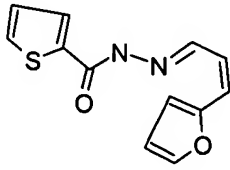
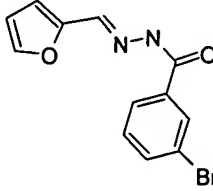
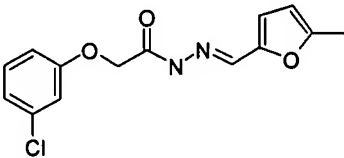
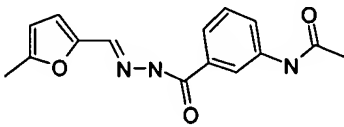
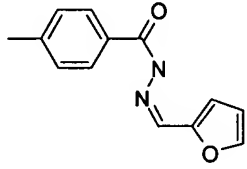
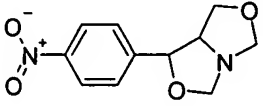
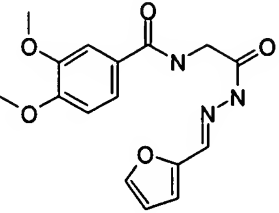
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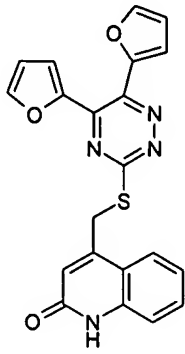
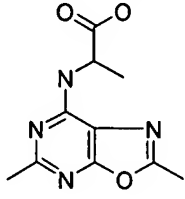
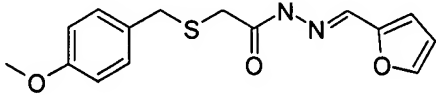
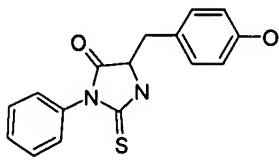
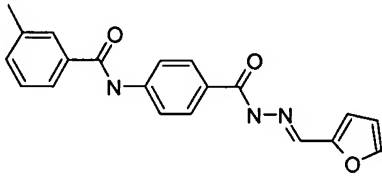
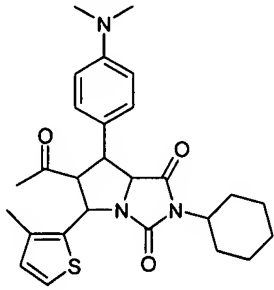
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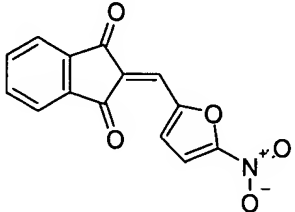
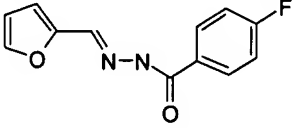
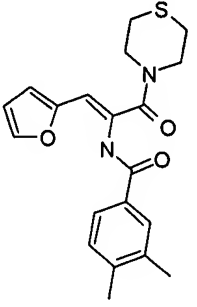
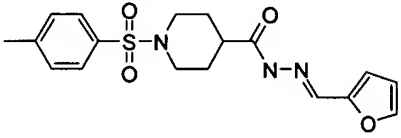
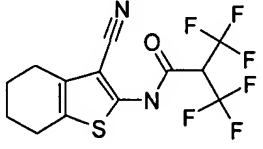
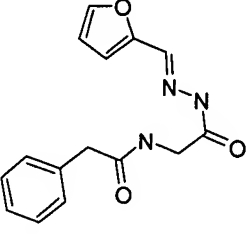
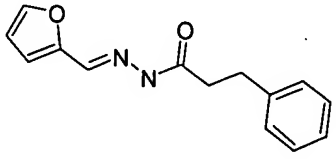
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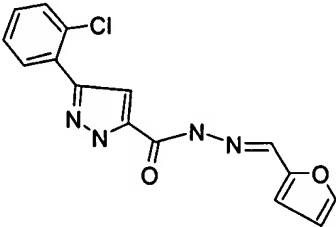
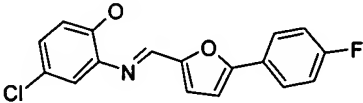
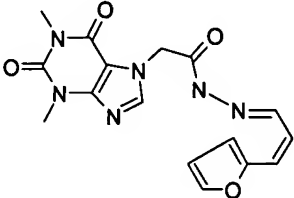
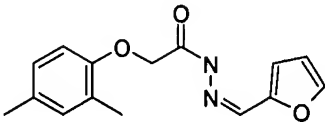
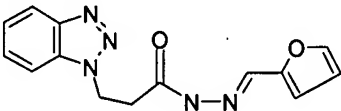
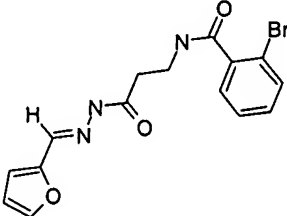
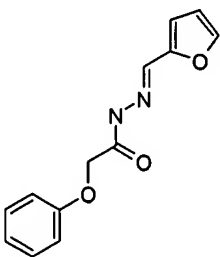
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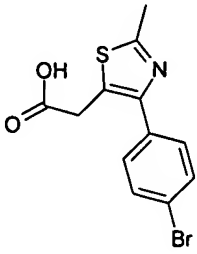
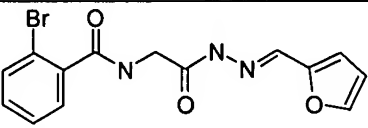
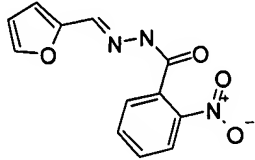
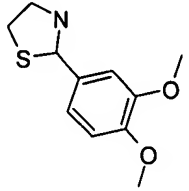
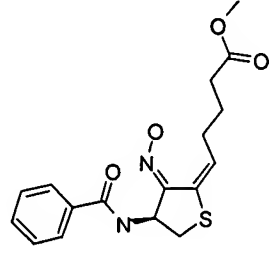
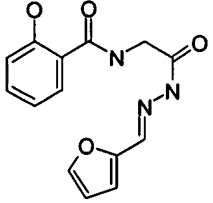
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A3.295	
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A3.311	
A3.312	

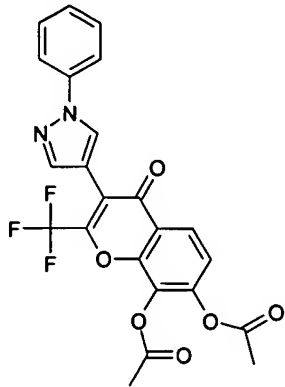
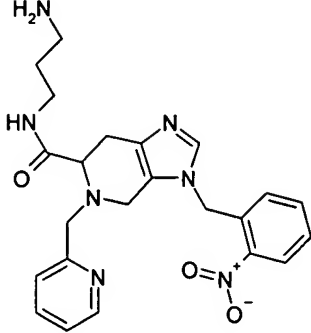
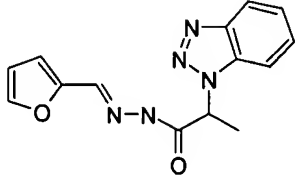
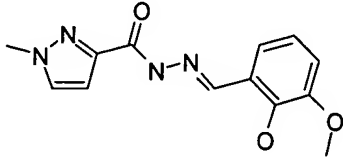
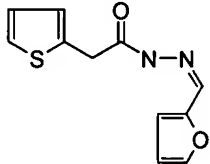
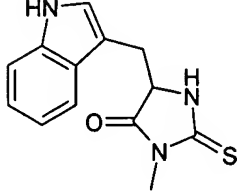
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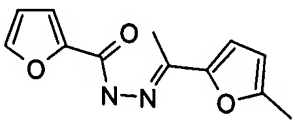
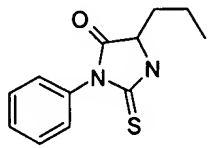
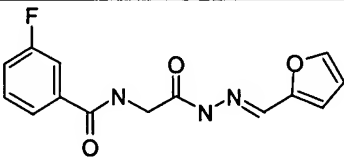
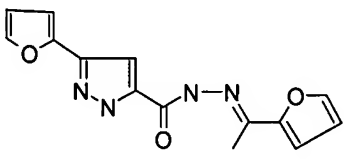
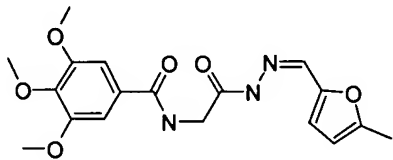
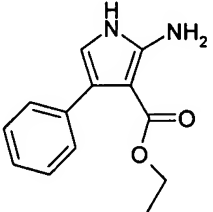
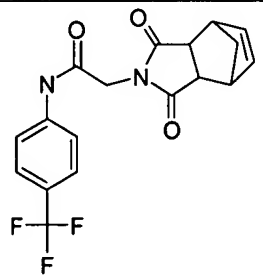
A3.313	 <chem>Cc1nn(C(=O)O)c(s1)-c2ccc(Br)cc2</chem>
A3.314	 <chem>BrC1=CC=C(C=C1)C(=O)NCC(=O)N/N=C/c2ccoc2</chem>
A3.315	 <chem>O=[N+]([O-])c1ccccc1C(=O)N/N=C/c2ccoc2</chem>
A3.316	 <chem>COC1=CC=C(C=C1C2SCCN2)OC</chem>
A3.317	 <chem>COC(=O)CCC/C=C/C1SCCNC1C(=O)N2C(=O)c3ccccc32</chem>
A3.318	 <chem>O=C1CN(C(=O)N2C(=O)c3ccccc32)CC(=O)N/N=C/c4ccoc4</chem>

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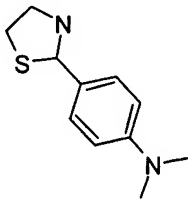
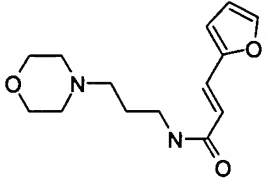
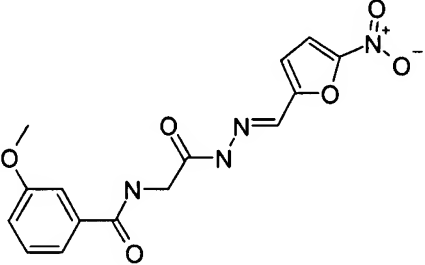
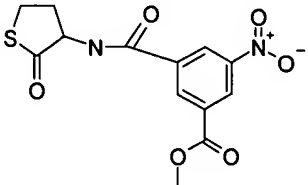
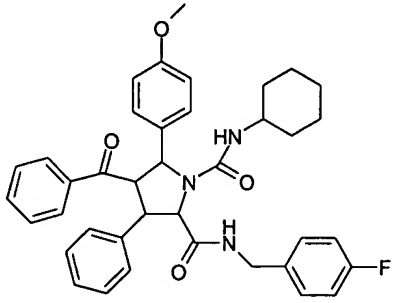
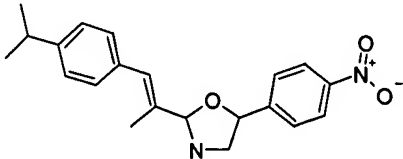
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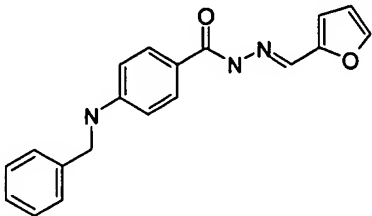
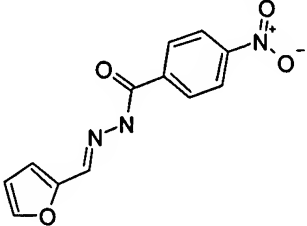
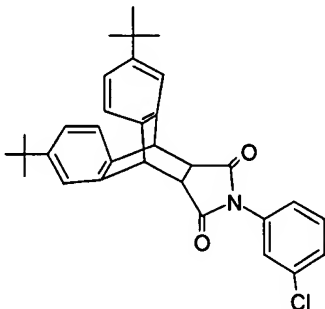
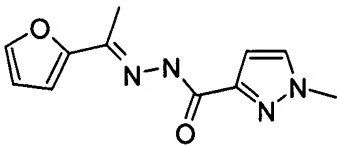
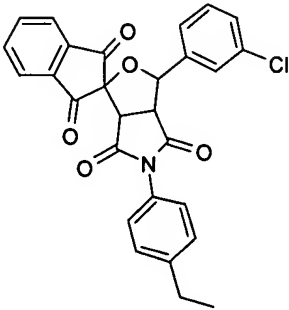
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A3.329	
A3.330	

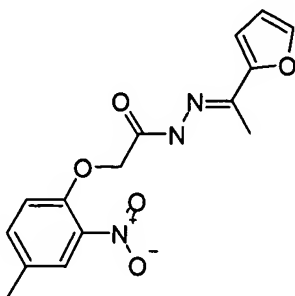
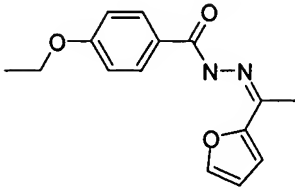
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A3.337	

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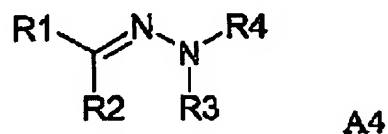
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A3.342	
A3.345	

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A3.346	
A3.347	
A3.348	
A3.349	
A3.350	

A3.351	
A3.352	

7. Compounds of the general formula A4



wherein

- R1, R2, R3 and R4 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A4 via a C atom or a hetero atom;

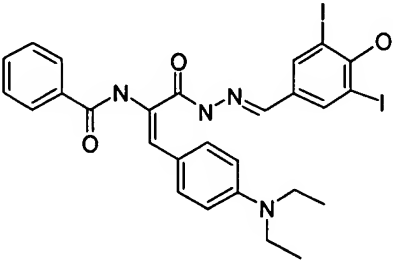
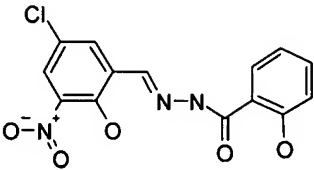
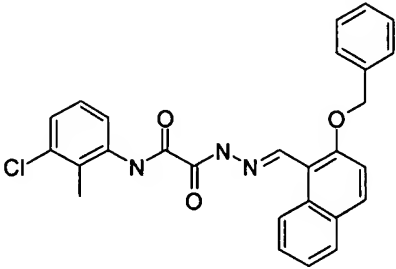
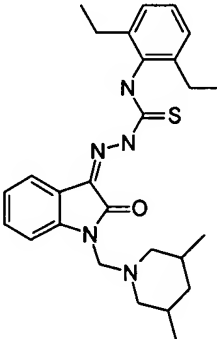
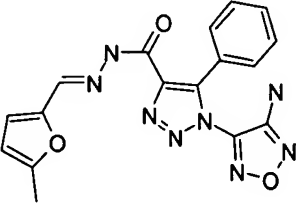
P29677.S01

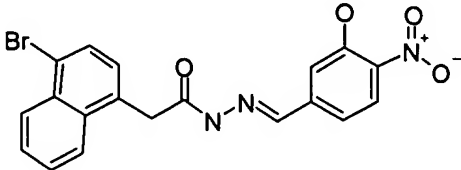
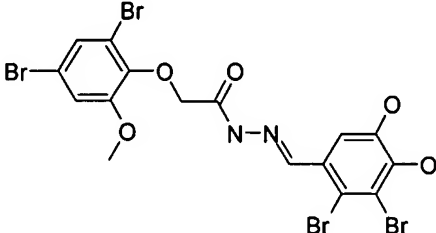
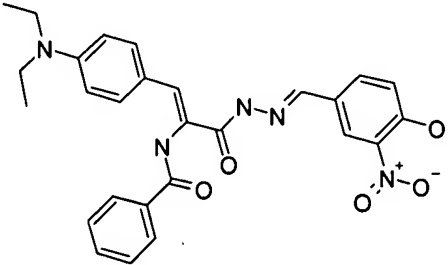
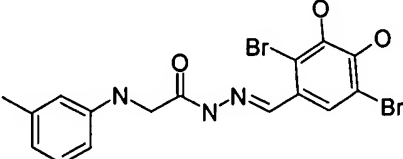
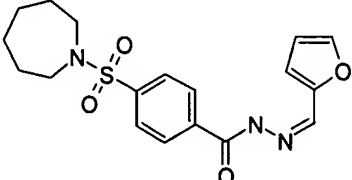
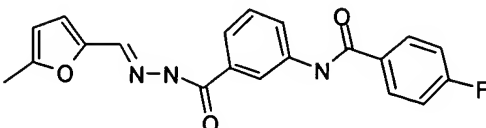
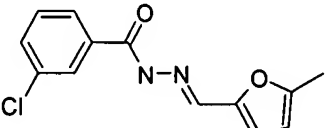
and tautomers, stereoisomers of the compounds of the general formula A4 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

8. The compounds of the general formula A4 according to claim 7 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A4 according to Table 4, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

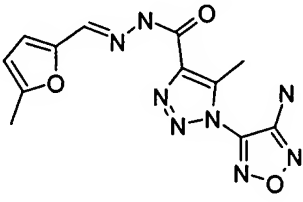
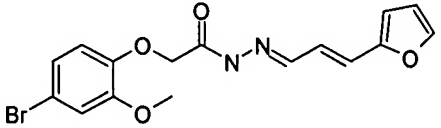
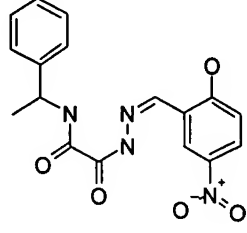
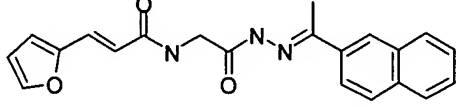
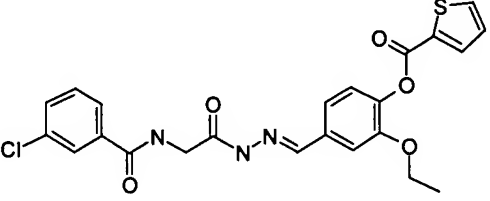
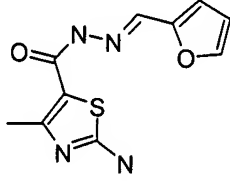
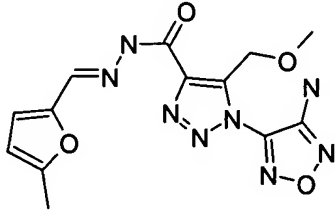
Table 4:

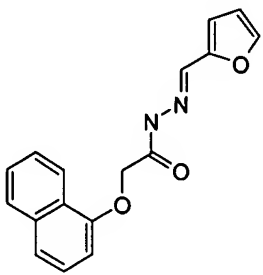
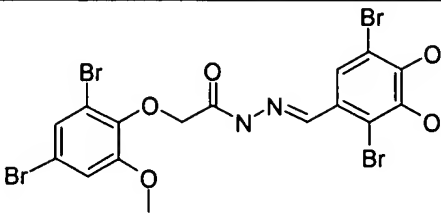
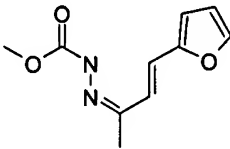
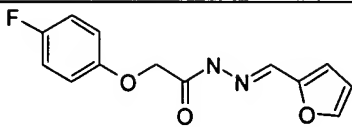
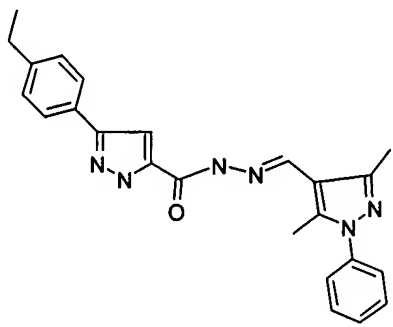
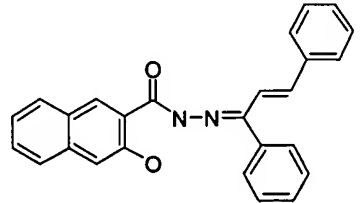
Compound ID.	Structure
A4.001	 <chem>CC1=CN2C(=N1)N(C2)C(=O)COc3ccc([N+](=O)[O-])cc3</chem>
A4.002	 <chem>COc1ccc(C=Nc2c(C)c(Br)nn2)cc1C(=O)Nc3c(C)nc4ccccc34</chem>
A4.003	 <chem>COc1cc(Br)ccc1C(=O)Nc2c(C)nc3cc(Br)c(OC)c3n2</chem>

A4.004	 <chem>CCN(CC)Cc1ccc(cc1)/C=C/C(=O)N(C(=O)c2ccccc2)N=Nc3cc(I)c(I)c(I)c3</chem>
A4.005	 <chem>O=C1C(=O)C=CC=C1C(=O)N=N/C=C/c2cc(Cl)cc([N+](=O)[O-])c2=O</chem>
A4.006	 <chem>c1ccc(cc1)COc2ccccc2/C=C/C(=O)N(C(=O)Nc3cc(Cl)ccc3)N=Nc4cc(OCc5ccccc5)ccc4</chem>
A4.007	 <chem>CCc1ccccc1S/C=C/C(=O)N1C(=O)c2ccccc2N1CN3CC(C)CC3</chem>
A4.008	 <chem>COc1ccccc1/C=C/C(=O)N2C(=O)c3ccccc3N2N=Nc4nn[nH]4</chem>

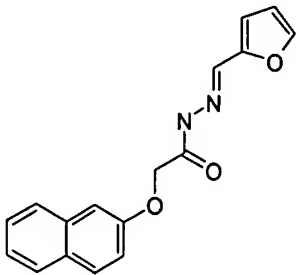
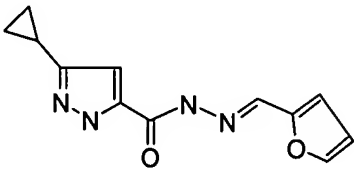
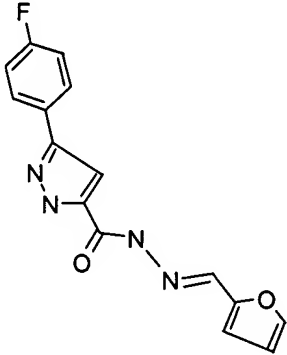
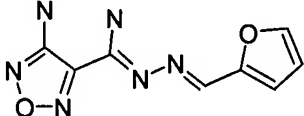
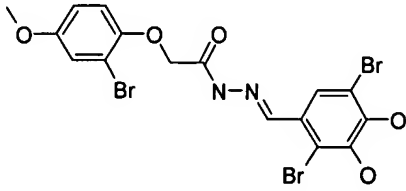
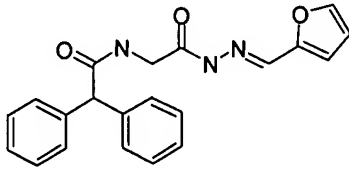
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A4.011	
A4.012	
A4.013	
A4.014	
A4.015	

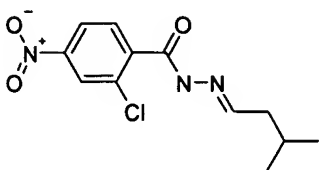
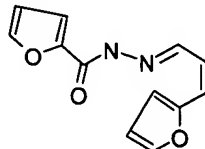
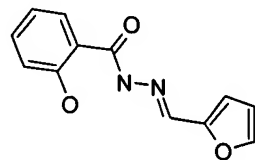
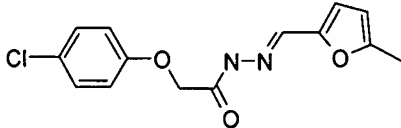
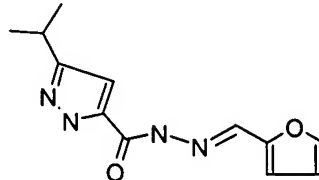
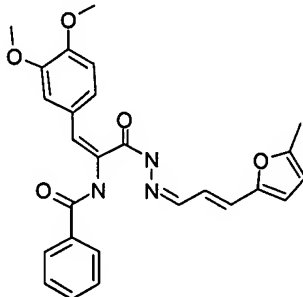
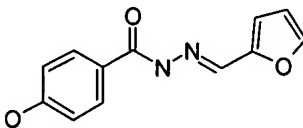
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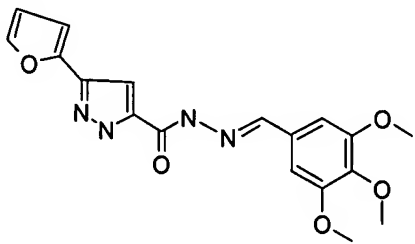
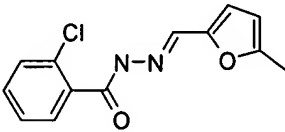
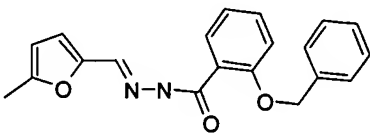
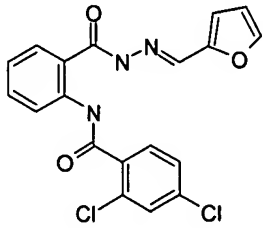
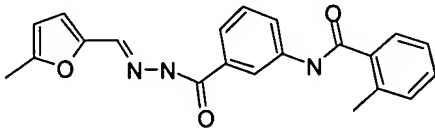
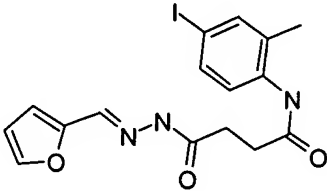
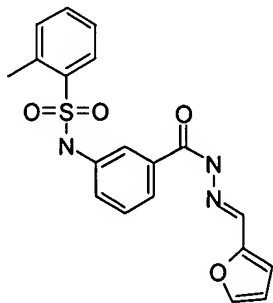
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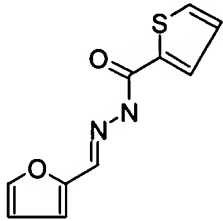
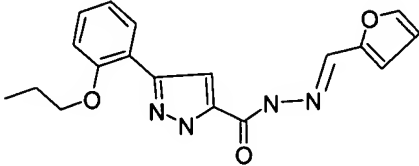
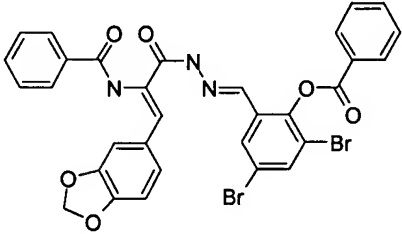
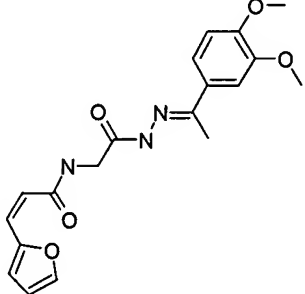
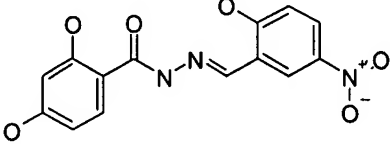
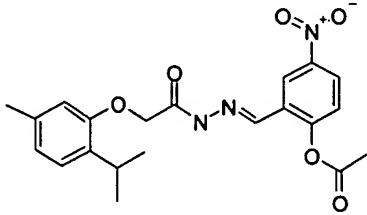
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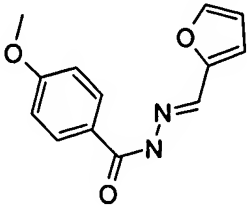
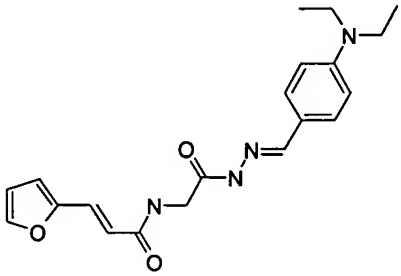
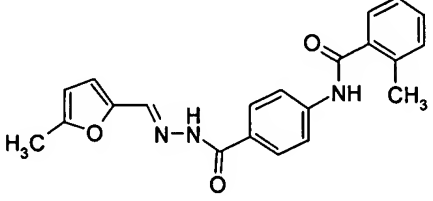
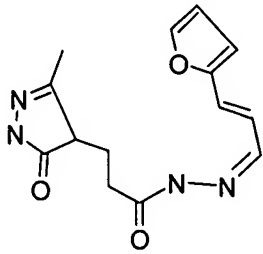
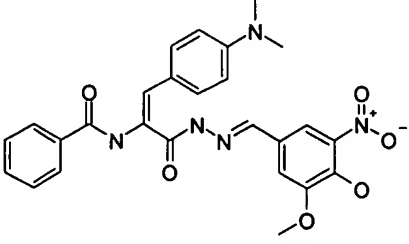
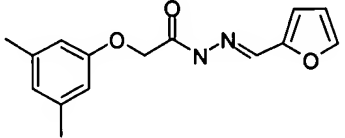
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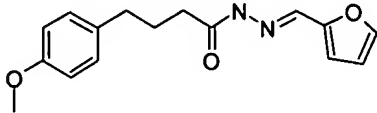
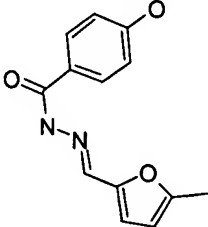
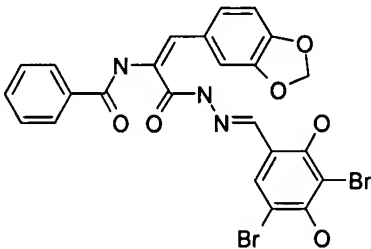
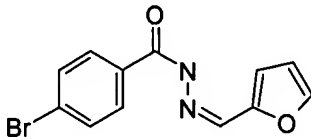
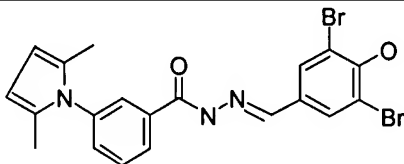
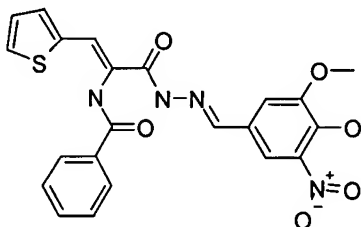
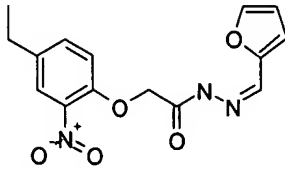
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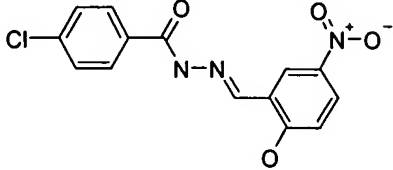
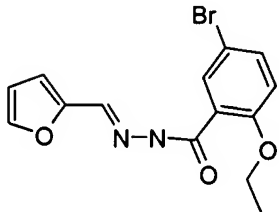
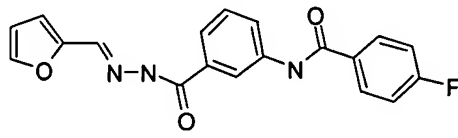
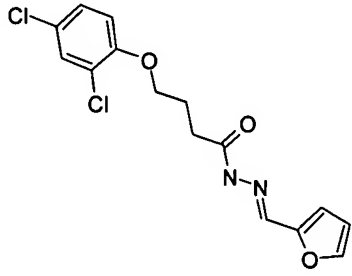
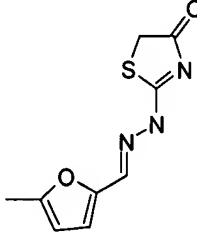
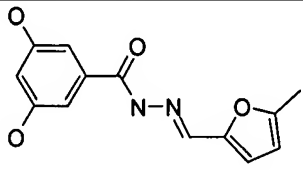
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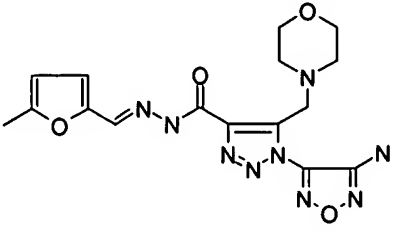
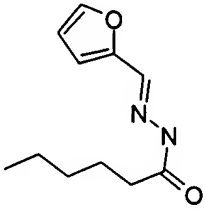
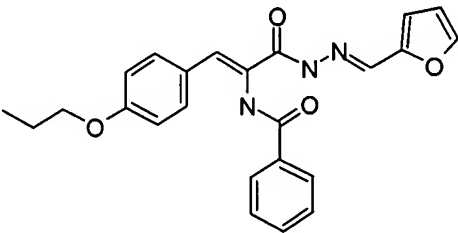
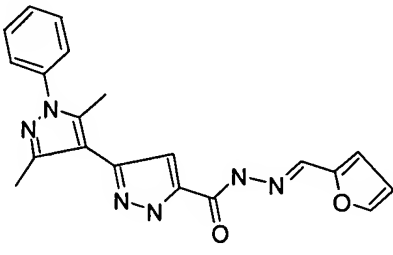
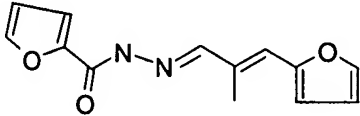
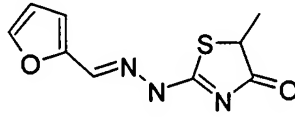
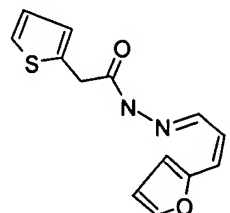
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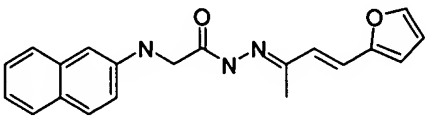
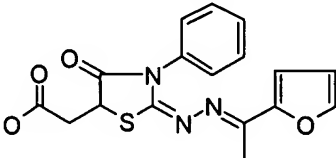
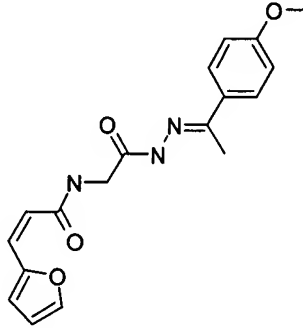
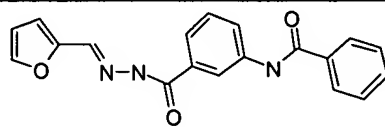
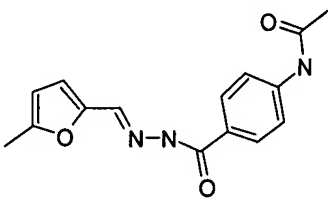
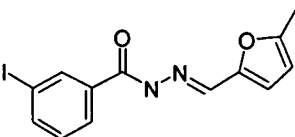
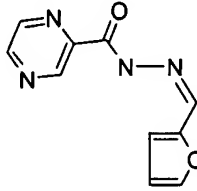
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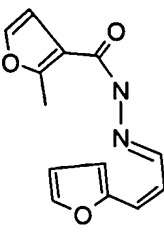
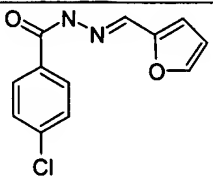
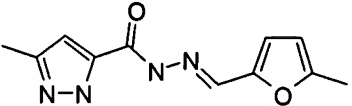
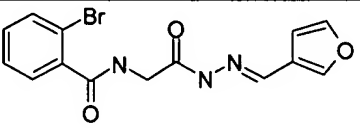
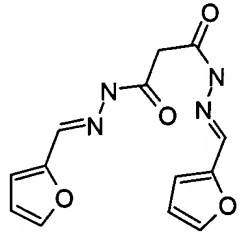
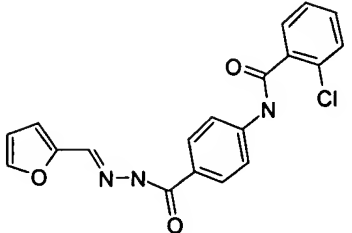
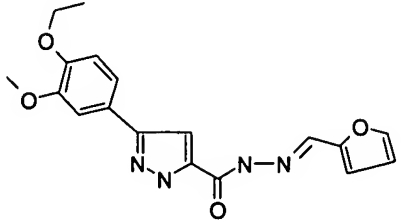
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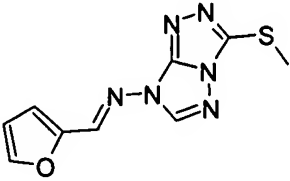
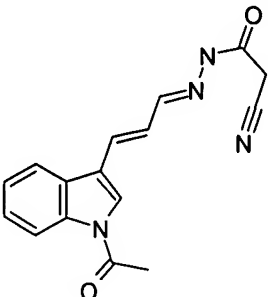
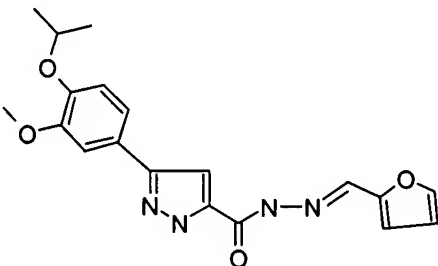
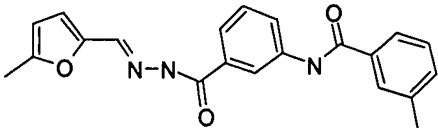
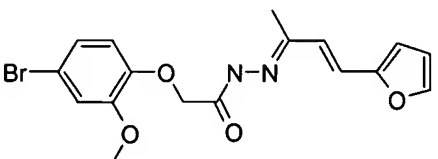
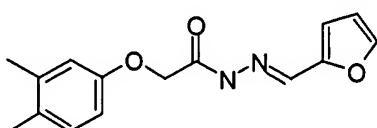
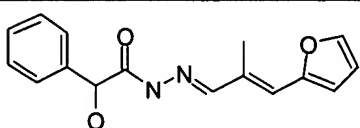
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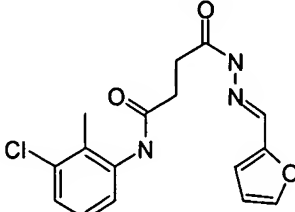
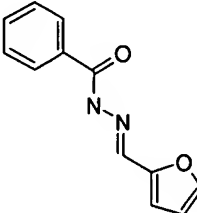
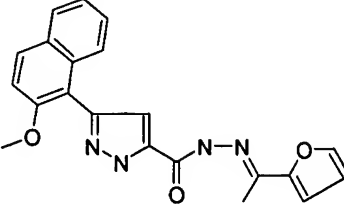
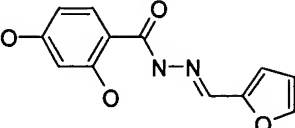
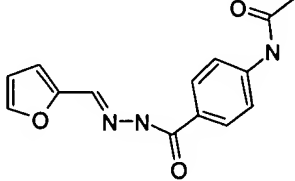
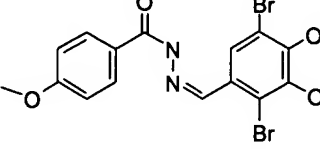
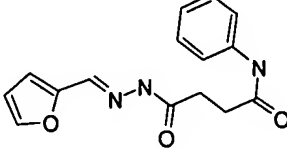
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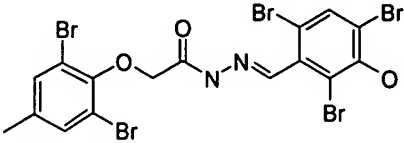
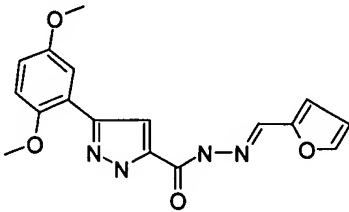
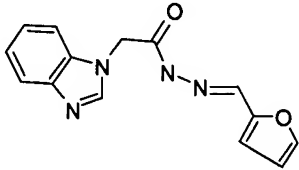
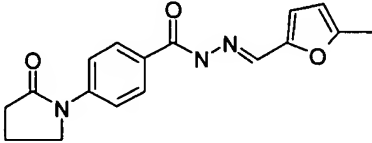
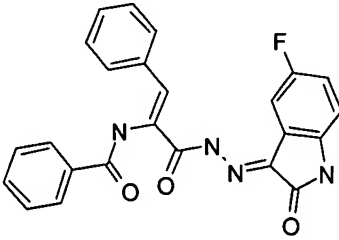
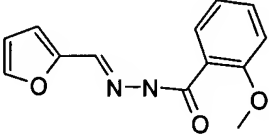
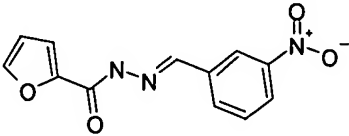
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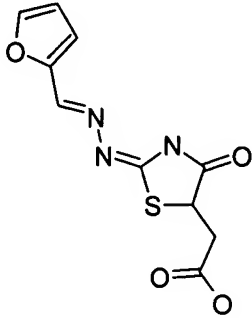
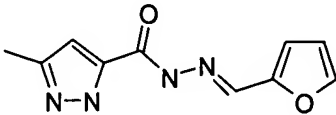
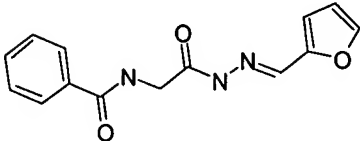
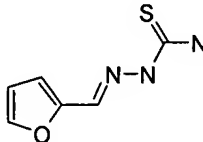
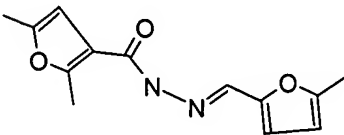
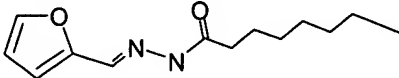
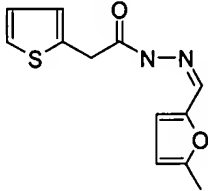
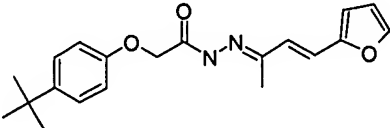
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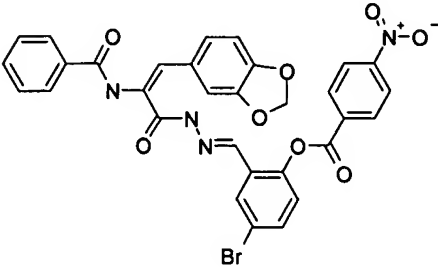
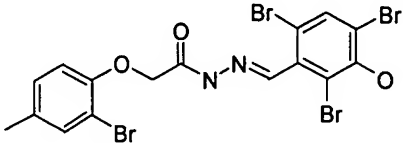
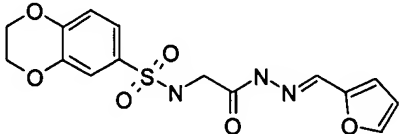
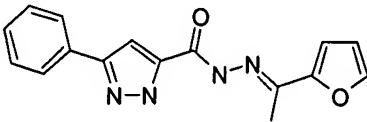
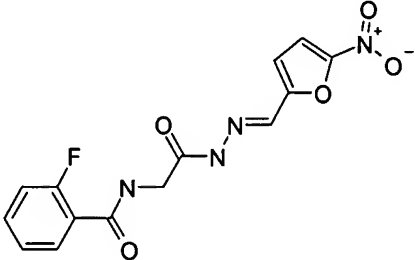
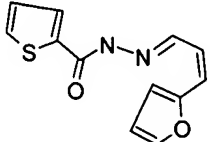
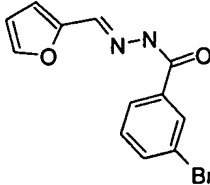
P29677.S01

A4.126	
A4.127	
A4.128	
A4.129	
A4.130	
A4.131	
A4.132	

A4.133	 <chem>O=C1C=CC=C(C=C1C(=O)N=Nc2ccccc2)C(=O)N=Nc3ccccc3</chem>
A4.134	 <chem>CC(C)OC1=CC=C(C(=C1C(=O)N=Nc2ccoc2)Br)C</chem>
A4.135	 <chem>O=C1C=CC=C(C=C1C(=O)N=Nc2ccccc2)C(=O)N=Nc3ccccc3</chem>
A4.136	 <chem>COc1ccc(cc1C(=O)N=Nc2ccoc2)S(=O)(=O)N</chem>
A4.137	 <chem>CC(C)OC1=CC=C(C(=C1C(=O)N=Nc2ccoc2)Br)C</chem>

A4.138	
A4.139	
A4.140	
A4.141	
A4.142	
A4.143	
A4.144	
A4.145	

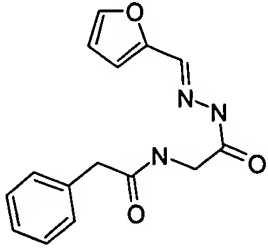
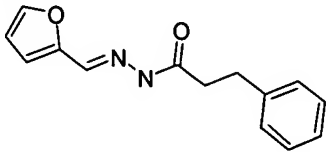
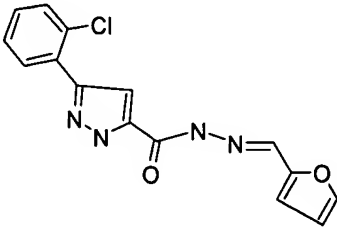
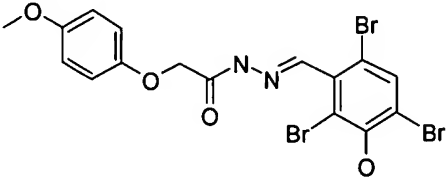
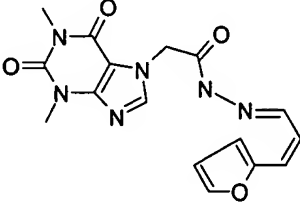
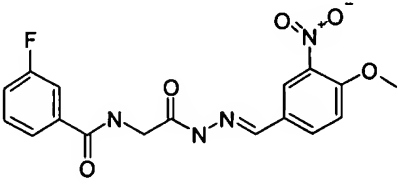
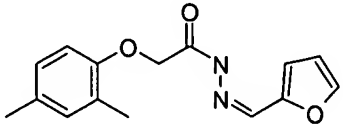
P29677.S01

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A4.148	
A4.149	
A4.150	
A4.151	
A4.152	

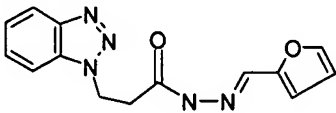
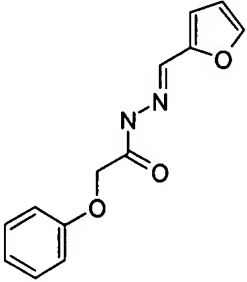
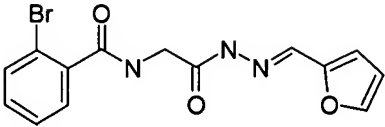
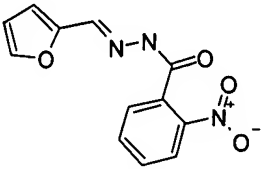
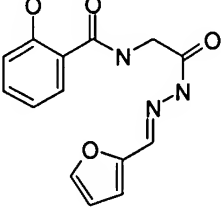
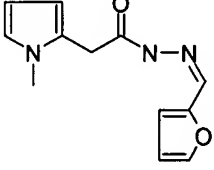
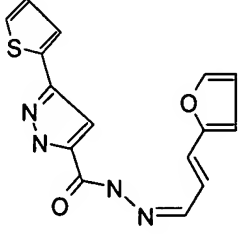
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A4.158	
A4.159	
A4.160	

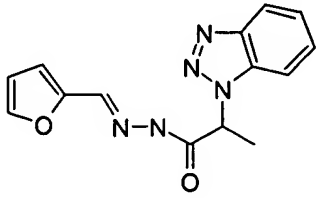
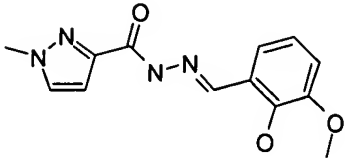
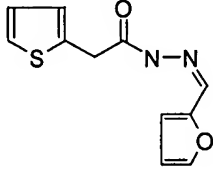
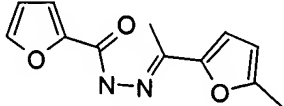
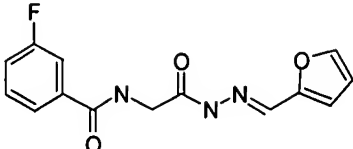
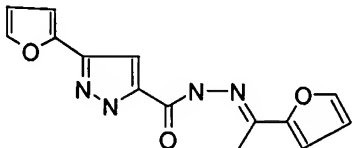
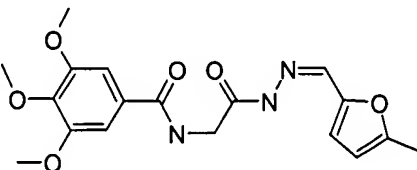
P29677.S01

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A4.162	
A4.163	
A4.164	
A4.166	
A4.167	
A4.168	

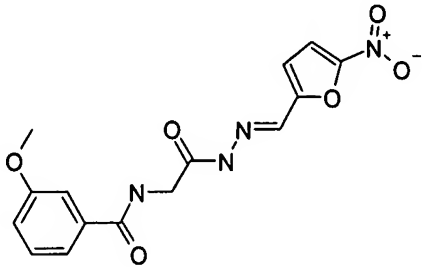
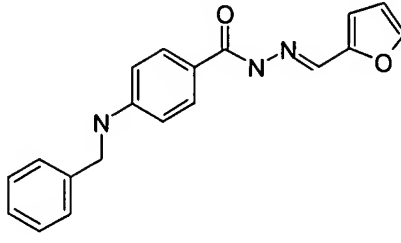
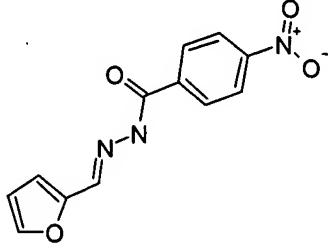
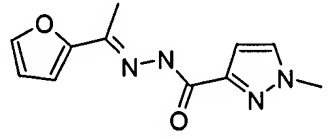
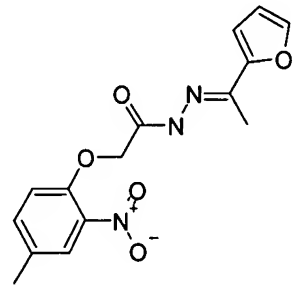
P29677.S01

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A4.171	
A4.172	
A4.173	
A4.174	
A4.175	

P29677.S01

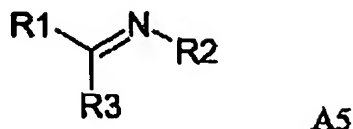
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A4.179	
A4.180	
A4.181	
A4.182	

P29677.S01

A4.183	
A4.184	
A4.185	
A4.186	
A4.187	

P29677.S01

9. Compounds of the general formula A5



wherein

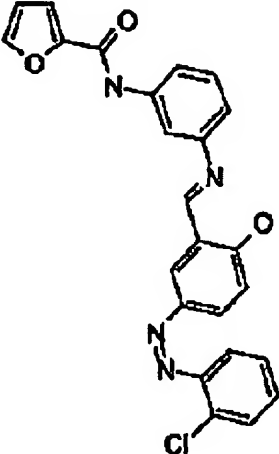
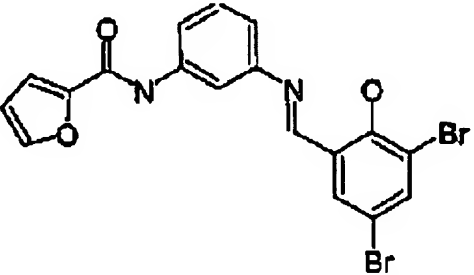
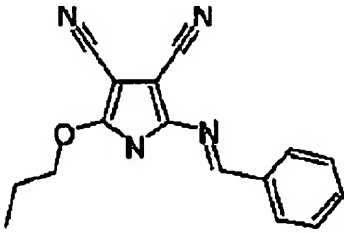
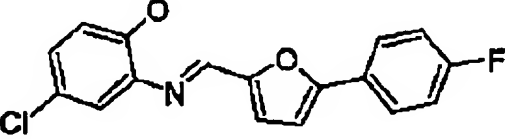
- R1, R2 and R3 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A5 via a C atom or a hetero atom;

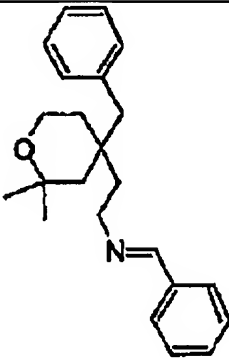
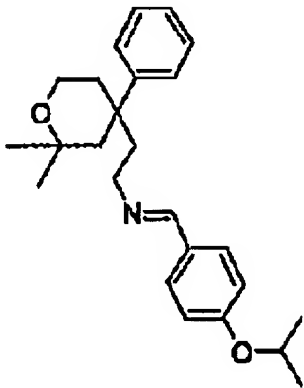
and tautomers, stereoisomers of the compounds of the general formula A5 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

10. The compounds of the general formula A5 according to claim 9 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A5 according to Table 5, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

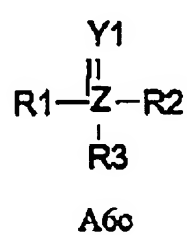
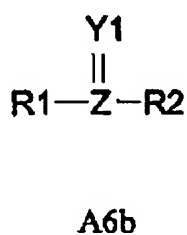
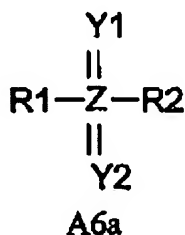
P29677.S01

Table 5:

Compound ID.	Structure
A5.001	
A5.003	
A5.004	
A5.005	

A5.006	
A5.007	

11. Compounds of the general formula A6 (= A6a, A6b or A6c)



wherein

- Y1 and Y2 may represent O, S, NH, NR₄ or NR₅;
- Z may represent S or P;
- R1 to R5 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl

P29677.S01

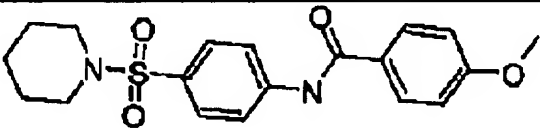
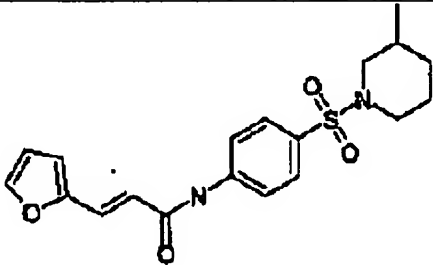
optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and

- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A6 via a C atom or a hetero atom;

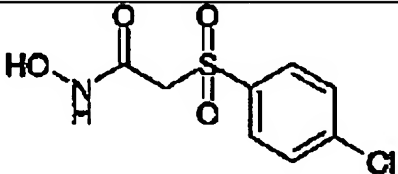
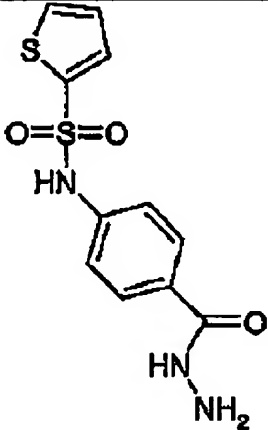
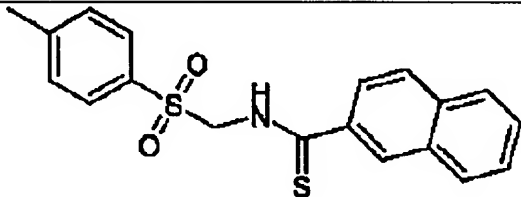
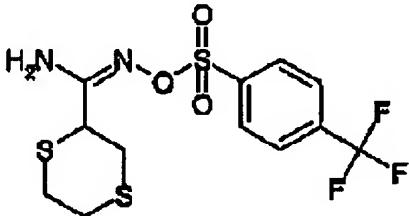
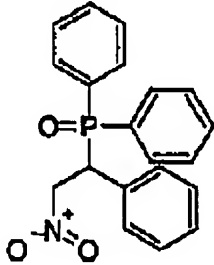
and tautomers, stereoisomers of the compounds of the general formula A6 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

12. The compounds of the general formulae A6 (= A6a, A6b and A6c) according to claim 11 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A6 according to Table 6, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

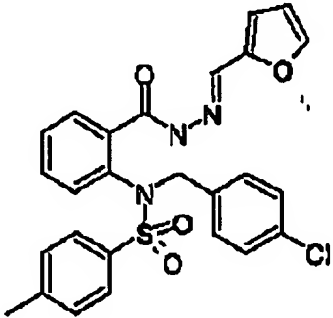
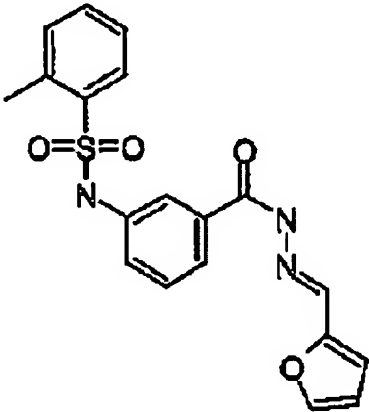
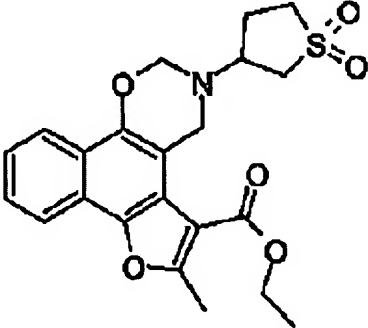
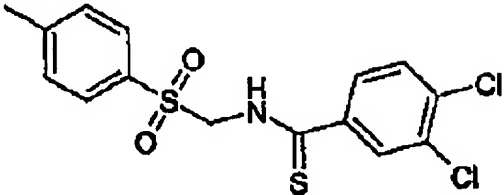
Table 6:

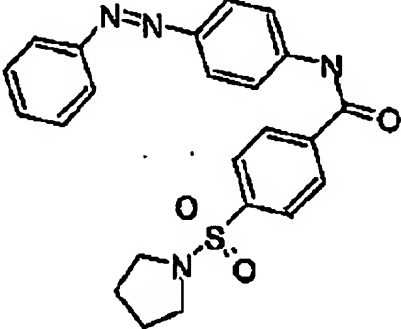
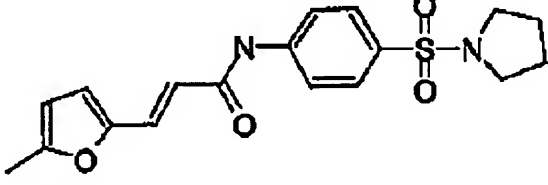
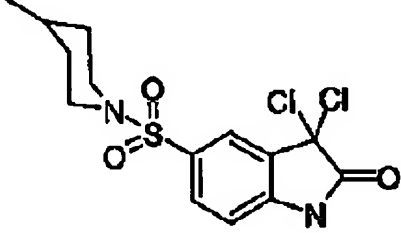
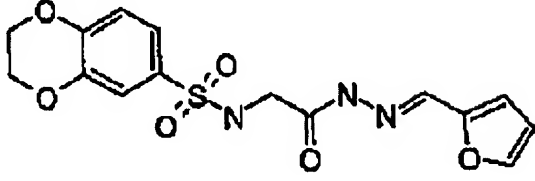
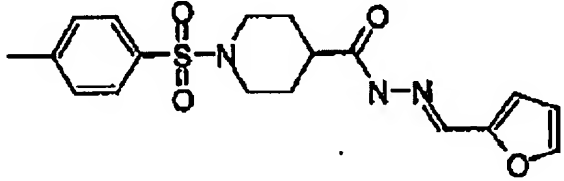
Compound ID.	Structure
A6.001	
A6.002	

P29677.S01

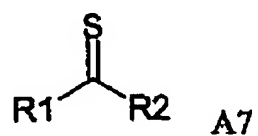
A6.003	 <chem>Clc1ccc(cc1)S(=O)(=O)CC(=O)N</chem>
A6.004	 <chem>NC(=O)C(N)C(=O)c1ccc(cc1)NS(=O)(=O)c2ccsc2</chem>
A6.005	 <chem>Cc1ccc(cc1)S(=O)(=O)CN(C=O)c2ccc3ccccc3c2</chem>
A6.006	 <chem>NC1=NC(=C(N1)OS(=O)(=O)c2ccc(cc2)C(F)(F)F)SCCSCC</chem>
A6.007	 <chem>O=[N+]([O-])c1ccc(cc1)COP(=O)(c2ccccc2)c3ccccc3</chem>

P29677.S01

A6.008	
A6.009	
A6.010	
A6.011	

A6.012	
A6.013	
A6.015	
A6.016	
A6.017	

13. Compounds of the general formula A7



P29677.S01

wherein

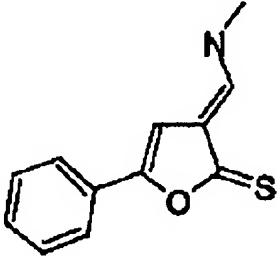
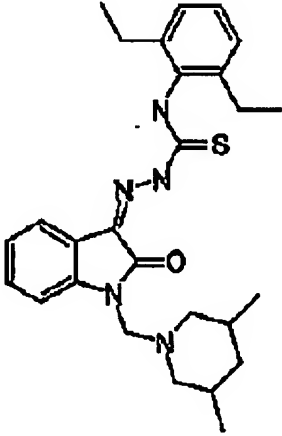
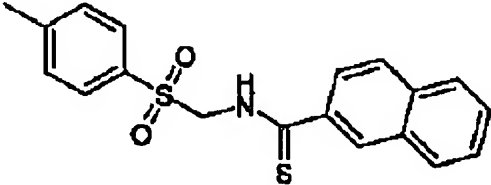
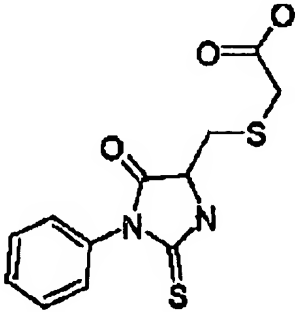
- R1 and R2 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyloptionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A7 via a C atom or a hetero atom;

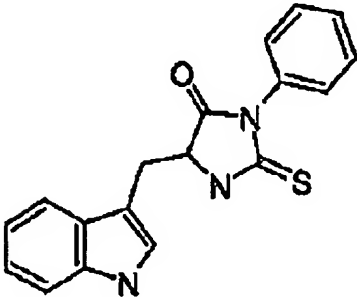
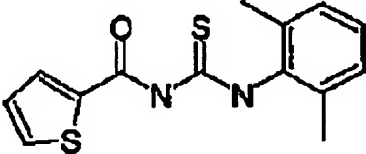
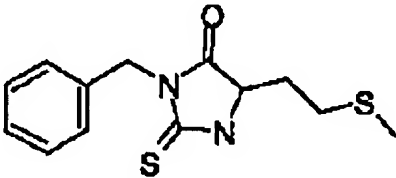
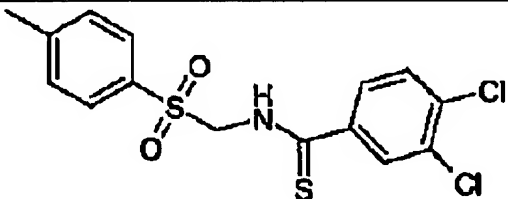
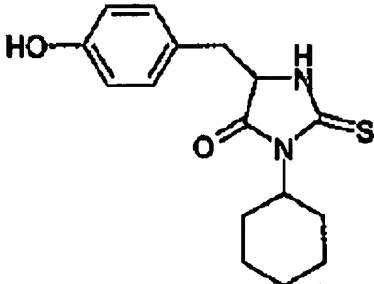
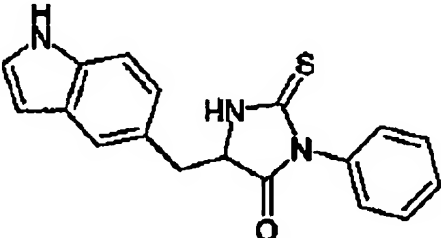
and tautomers, stereoisomers of the compounds of the general formula A7 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

14. The compounds of the general formula A7 according to claim 13 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A7 according to Table 7, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

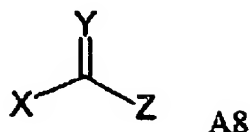
P29677.S01

Table 7:

Compound ID.	Structure
A7.001	 <chem>CN=Cc1c(s1)cc2ccccc2c1</chem>
A7.002	 <chem>CC1=CC=C(C=C1C2=CC=CC=C2N2C(=O)N(C2CN3CCCC(C)C3)C4=CC=CC=C4N4C(=S)N5C(=CC=C(C=C5)C)C)N6C(=CC=C(C=C6)C)C</chem>
A7.004	 <chem>CC1=CC=C(C=C1)S(=O)(=O)CN(C(=S)c2ccc3ccccc3cc2)C</chem>
A7.005	 <chem>CCOC(=O)CS[C@@H]1C(=O)N(c2ccccc2)C1=S</chem>

A7.006	
A7.007	
A7.008	
A7.010	
A7.011	
A7.012	

15. Compounds of the general formula A8



wherein

- X and Z may be identical or different and independent of each other are selected from the group consisting of hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S and amino (NH₂, NHR₁, NR₁R₂);
- Y represents O, S or NR₃;
- R₁, R₂ and R₃ may be identical or different and are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂- alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A8 via a C atom or a hetero atom;

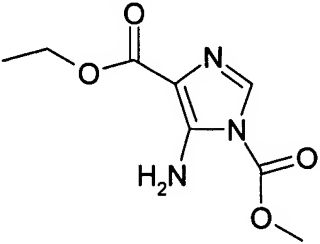
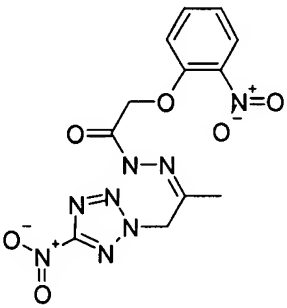
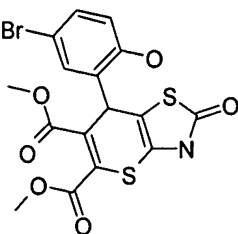
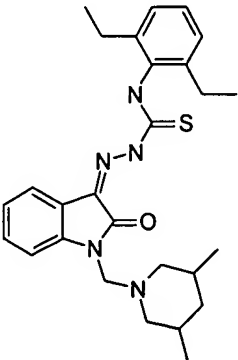
and tautomers, stereoisomers of the compounds of the general formula A8 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

16. The compounds of the general formula A8 according to claim 15 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A8 according to Table 8, and tautomers, stereoisomers of

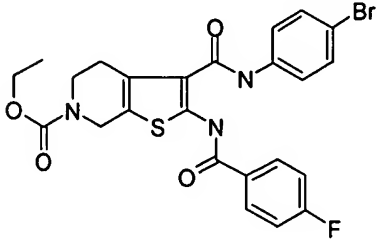
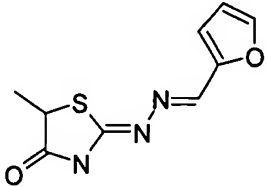
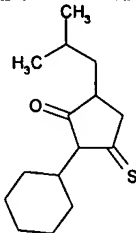
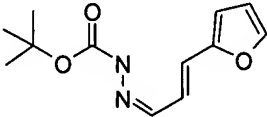
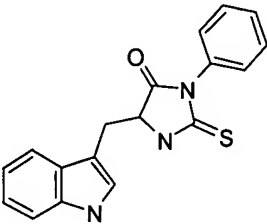
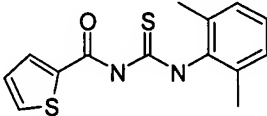
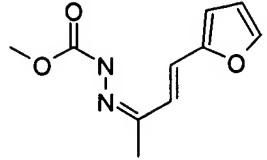
P29677.S01

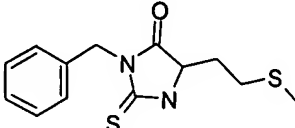
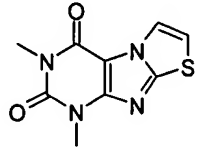
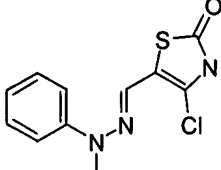
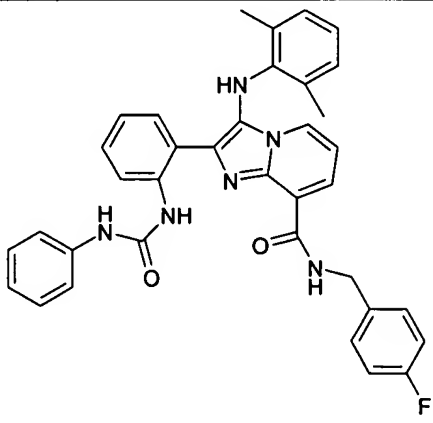
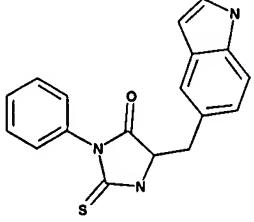
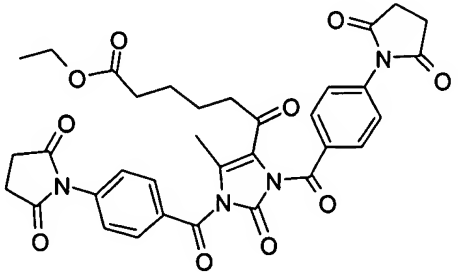
said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

Table 8:

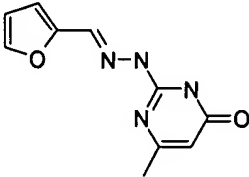
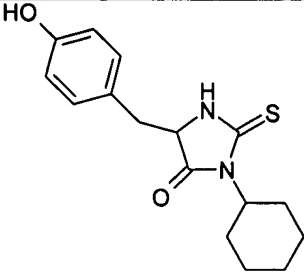
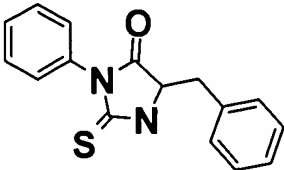
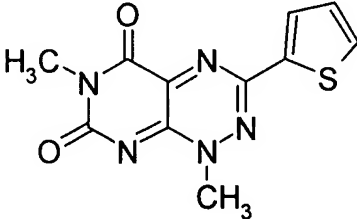
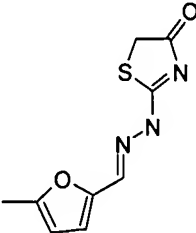
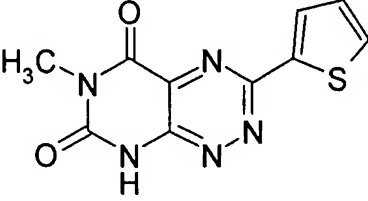
Compound ID.	Structure
A8.001	
A8.002	
A8.003	
A8.004	

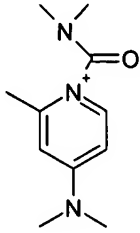
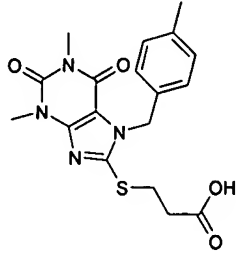
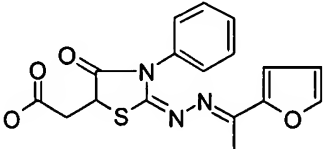
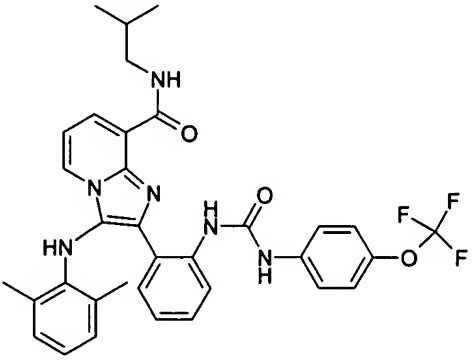
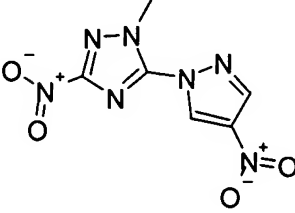
P29677.S01

A8.005	
A8.006	
A8.007	
A8.008	
A8.009	
A8.010	
A8.011	

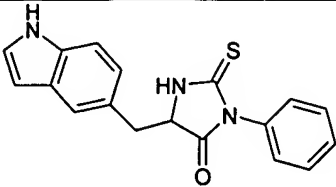
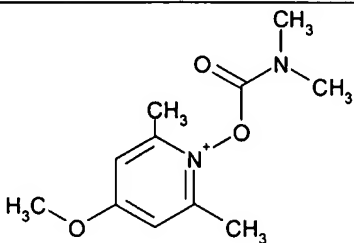
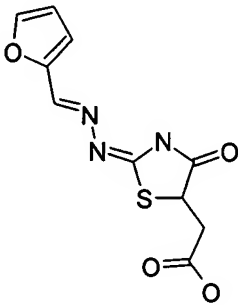
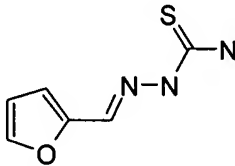
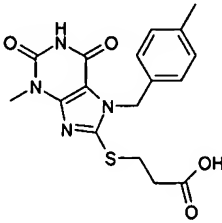
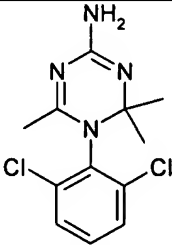
A8.012	 <chem>CSCCN1C(=O)N(C1)Cc2ccccc2</chem>
A8.013	 <chem>CN1C(=O)N(C)C(=O)N1C2=NC(=S)NC=S2</chem>
A8.014	 <chem>CN(C)/N=C/c1cc(Cl)n(s1)C=O</chem>
A8.015	 <chem>O=C(Nc1ccccc1)Nc2ccccc2C3=C(NC4=CC=CC=C4C5=CC=CC=C5C(=O)NCCc6ccc(F)cc6)N=CN3</chem>
A8.016	 <chem>CSCCN1C(=O)N(C1)Cc2cc3ccccc3n2</chem>
A8.017	 <chem>CCOC(=O)CCCC(=O)C1=C(C)N(C(=O)N2C(=O)C(=O)N2C(=O)C3=CC=C(C=C3)C(=O)N4C(=O)CCC4=O)C(=O)N5C(=O)CCC5=O</chem>

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A8.018	 <chem>Cc1nc(=O)c2nnc2n1C=O</chem>
A8.019	 <chem>Oc1ccc(cc1)CC2C(=O)N(C(=S)N2)C3CCCCC3</chem>
A8.020	 <chem>O=C1N(C1S2C(=S)N(C2)Cc3ccccc3)C4=CC=CC=C4</chem>
A8.021	 <chem>CN1C(=O)N(C)C(=O)N1C2=NC(=CSC2)C3=CC=CC=C3</chem>
A8.022	 <chem>Cc1cc(=O)nnc1C=CN2C(=O)N(C)C(=O)N2</chem>
A8.023	 <chem>CN1C(=O)N(C)C(=O)N1C2=NC(=CSC2)C3=CC=CC=C3</chem>

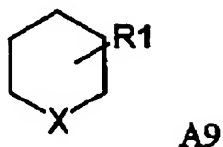
A8.024	 <chem>CN(C)c1cc[n+](C(=O)N(C)C)c1</chem>
A8.025	 <chem>CC1=CC=C(C=C1)C2=CC(=O)N(C)C(=O)N2C3=NC(=S3)SCCC(=O)O</chem>
A8.026	 <chem>CC1=CC=C(C=C1)O=C1SC(=N1)N(C2=CC=CC=C2)C(=O)CC3=CC(=O)OC3</chem>
A8.027	 <chem>CC(C)CNC(=O)c1ccc2nc3c(c1)c(NC(=O)c4ccc(OC(F)(F)F)cc4)c(N)c3c2c5ccccc5C</chem>
A8.028	 <chem>[O-][N+]([O-])c1nn2c(n1)n([N+](=O)[O-])cc2</chem>

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A8.029	 <chem>C1=CC=C(C=C1)N2C(=O)NC(S2)CCc3ccc[nH]3</chem>
A8.030	 <chem>CN(C)C(=O)OC1=CC(=CC=C1N+)(C)C(C)=COC</chem>
A8.031	 <chem>OC(=O)CC1SC(=O)N1=N=NCC2=CC=CC=O2</chem>
A8.032	 <chem>C1=CC=CC=C1O1C=CN=NN=C1N</chem>
A8.033	 <chem>OC(=O)CCSC1=NC2=C(N1)C(=O)NC(=O)N2Cc3ccc(C)cc3</chem>
A8.034	 <chem>CN1=NC2=C(N1)N=CN2C3=CC(=CC=C3Cl)Cl</chem>

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17. Compounds of the general formula A9



wherein

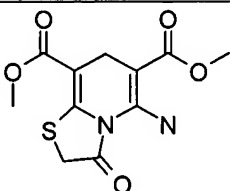
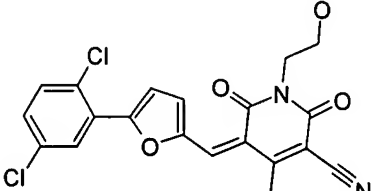
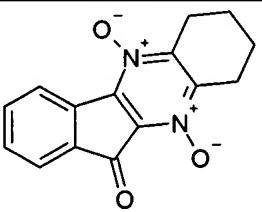
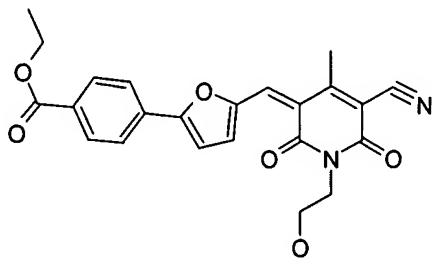
- the residues R1 symbolize the substitution of the basic six-membered ring structure;
- X may represent O, S, NH, NR₂;
- the basic heterocyclic structure may contain zero to three double bonds and up to three further hetero atoms from the group X;
- the hetero atoms of the group X may be identical or different and may represent O, S, NH, NR₂;
- R1 and R2 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A9 via a C atom or a hetero atom;

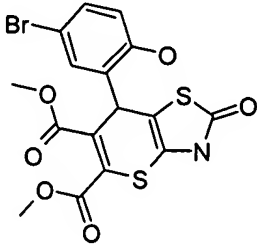
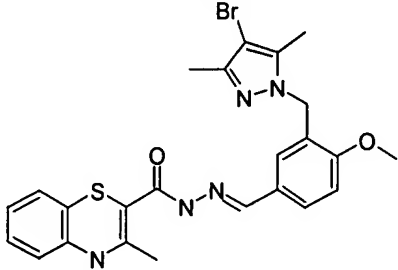
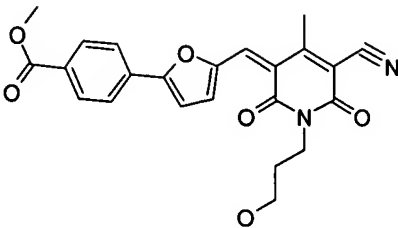
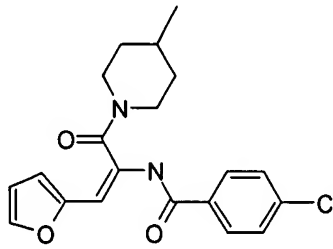
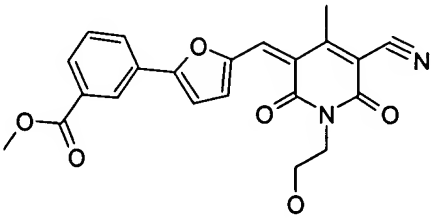
and tautomers, stereoisomers of the compounds of the general formula A9 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

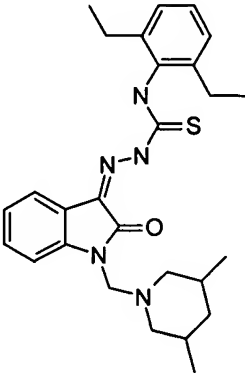
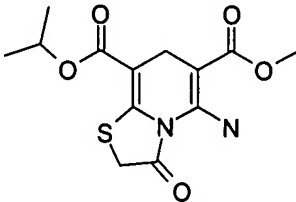
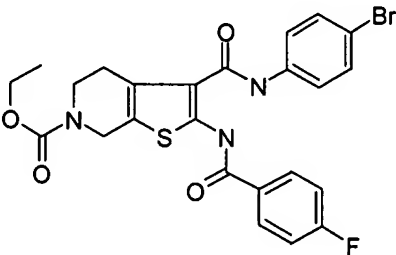
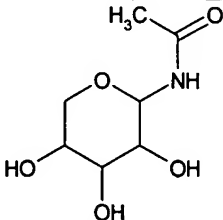
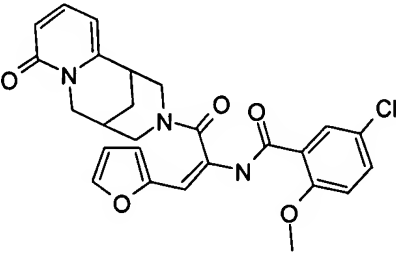
P29677.S01

18. The compounds of the general formula A9 according to claim 17 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A9 according to Table 17, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

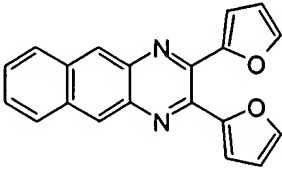
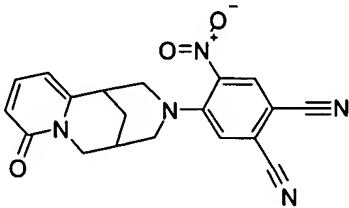
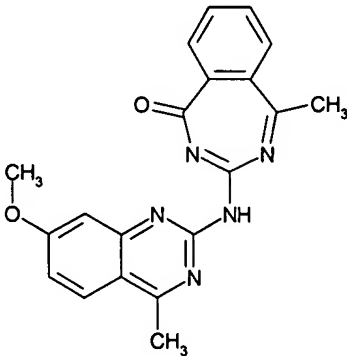
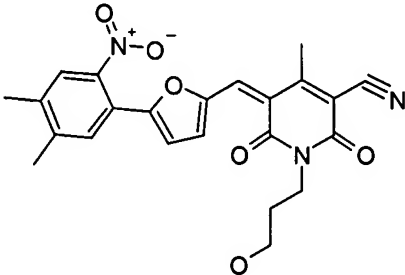
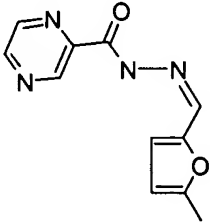
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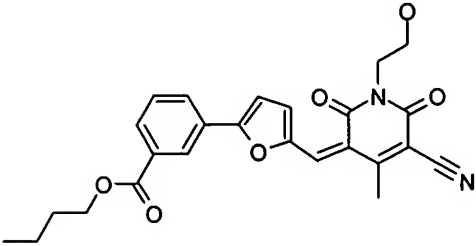
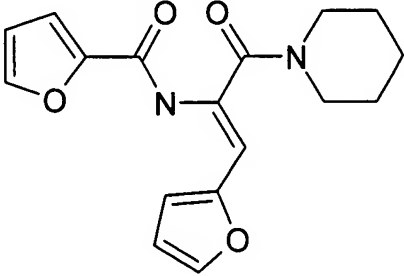
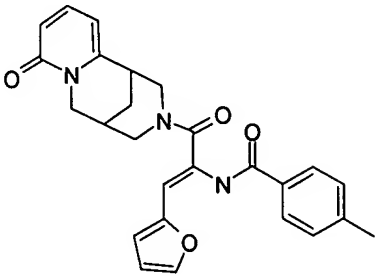
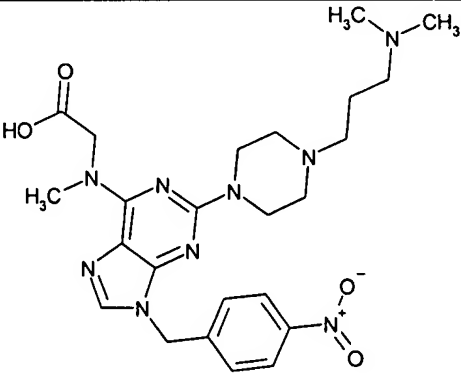
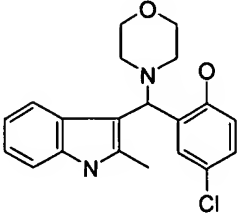
Compound ID.	Structure
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A9.002	
A9.003	
A9.005	

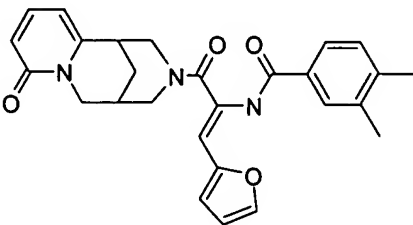
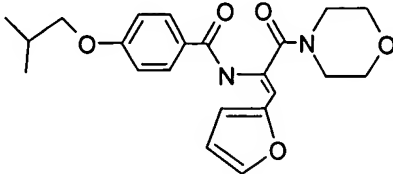
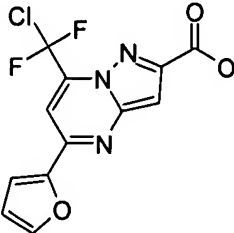
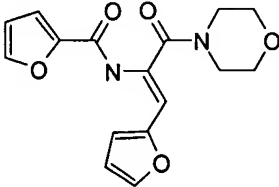
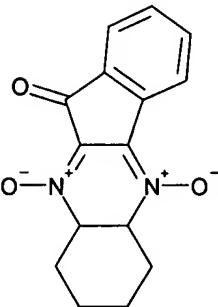
A9.006	 <p>Chemical structure of a thiazine derivative. It features a 4-bromophenyl group attached to a thiazine ring system. The thiazine ring has two methoxycarbonyl groups and a carbonyl group.</p>
A9.007	 <p>Chemical structure of a thiazine derivative. It features a 4-bromophenyl group attached to a thiazine ring system. The thiazine ring has a methoxycarbonyl group and a carbonyl group.</p>
A9.008	 <p>Chemical structure of a thiazine derivative. It features a 4-bromophenyl group attached to a thiazine ring system. The thiazine ring has a methoxycarbonyl group and a carbonyl group.</p>
A9.009	 <p>Chemical structure of a thiazine derivative. It features a 4-bromophenyl group attached to a thiazine ring system. The thiazine ring has a methoxycarbonyl group and a carbonyl group.</p>
A9.010	 <p>Chemical structure of a thiazine derivative. It features a 4-bromophenyl group attached to a thiazine ring system. The thiazine ring has a methoxycarbonyl group and a carbonyl group.</p>

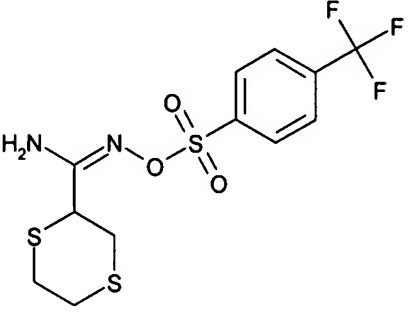
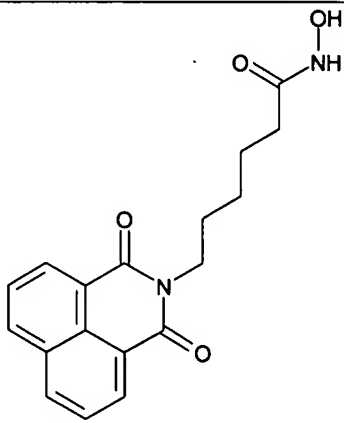
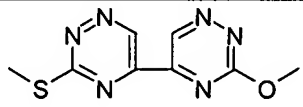
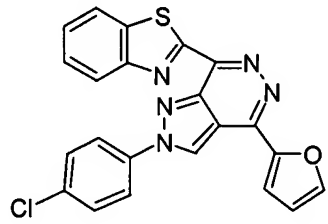
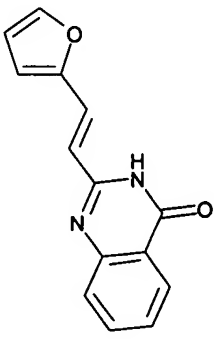
A9.011	 <p>Chemical structure of a thiazine derivative. It features a 1,2,4-thiazine ring system. The nitrogen at position 2 is substituted with a 4-ethylphenyl group. The nitrogen at position 4 is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The sulfur atom is double-bonded to a carbon atom, which is part of a 1,2,4-thiazine ring system.</p>
A9.012	 <p>Chemical structure of a pyridine derivative. It features a pyridine ring with a carbonyl group at position 2, which is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The nitrogen at position 4 is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The sulfur atom is double-bonded to a carbon atom, which is part of a 1,2,4-thiazine ring system.</p>
A9.013	 <p>Chemical structure of a thiazine derivative. It features a 1,2,4-thiazine ring system. The nitrogen at position 2 is substituted with a 4-bromophenyl group. The nitrogen at position 4 is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The sulfur atom is double-bonded to a carbon atom, which is part of a 1,2,4-thiazine ring system.</p>
A9.014	 <p>Chemical structure of a pyran derivative. It features a 1,2,4-pyran ring system. The nitrogen at position 2 is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The nitrogen at position 4 is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The sulfur atom is double-bonded to a carbon atom, which is part of a 1,2,4-thiazine ring system.</p>
A9.015	 <p>Chemical structure of a thiazine derivative. It features a 1,2,4-thiazine ring system. The nitrogen at position 2 is substituted with a 4-chlorophenyl group. The nitrogen at position 4 is substituted with a 1-methyl-4-methylpiperidin-4-ylmethyl group. The sulfur atom is double-bonded to a carbon atom, which is part of a 1,2,4-thiazine ring system.</p>

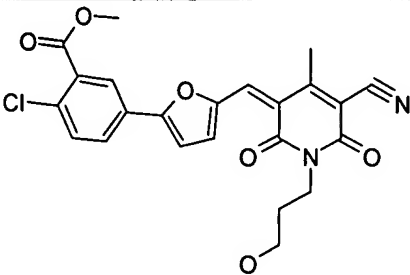
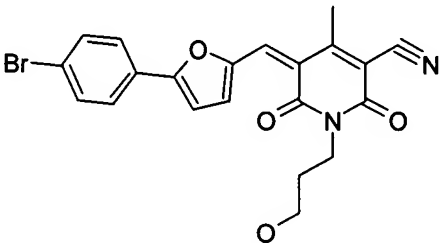
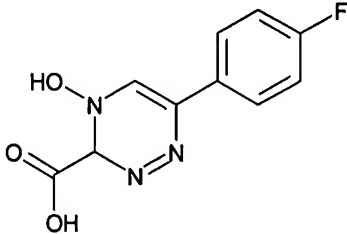
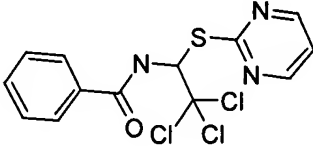
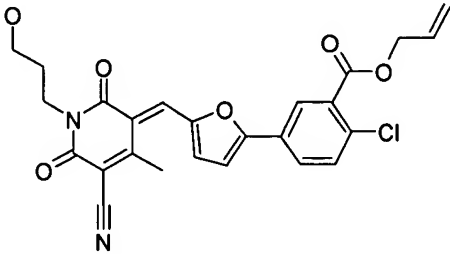
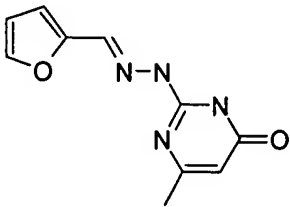
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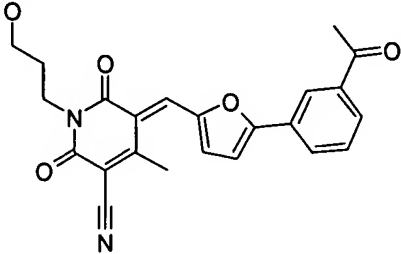
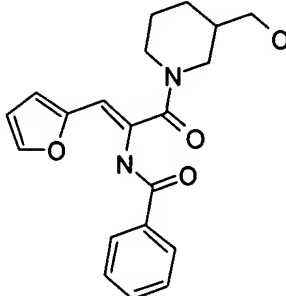
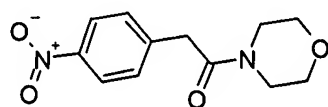
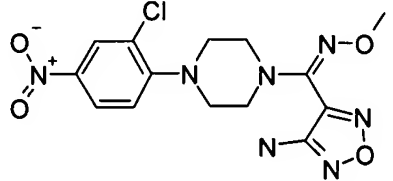
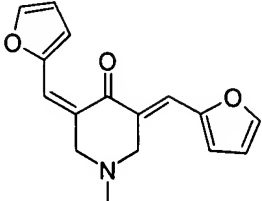
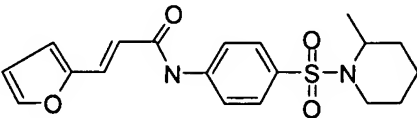
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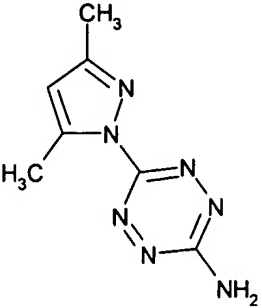
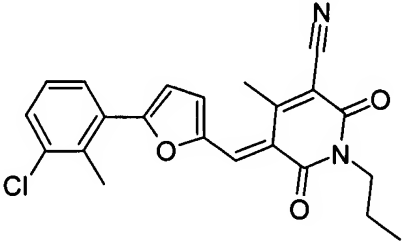
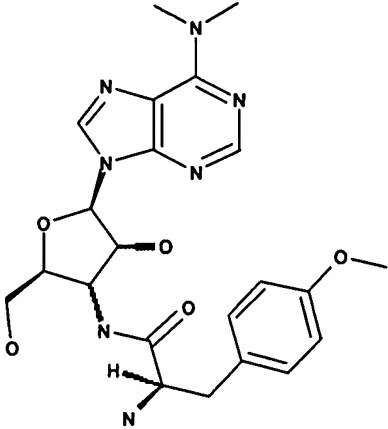
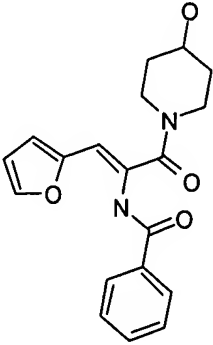
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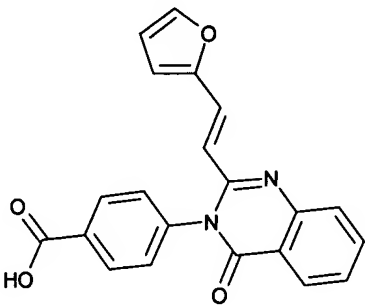
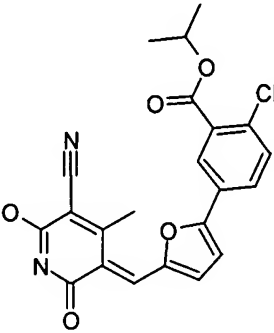
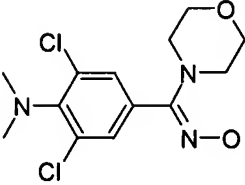
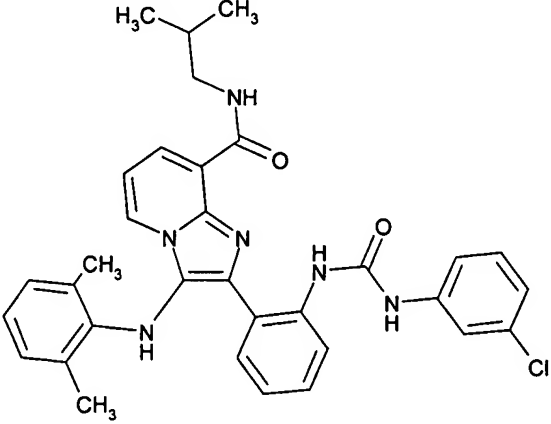
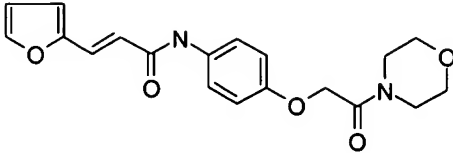
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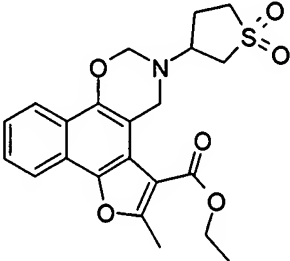
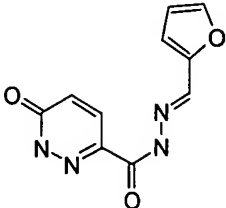
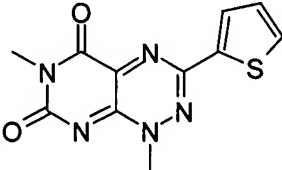
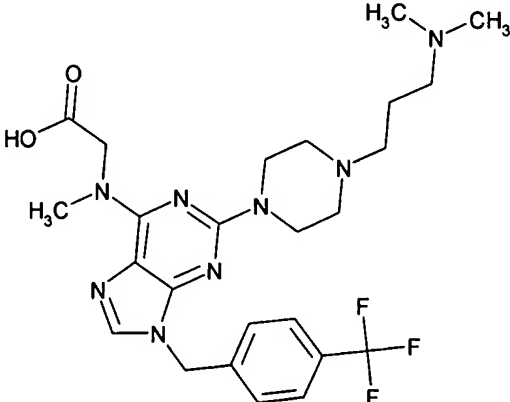
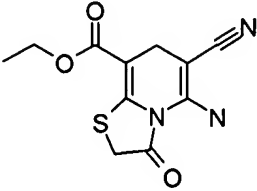
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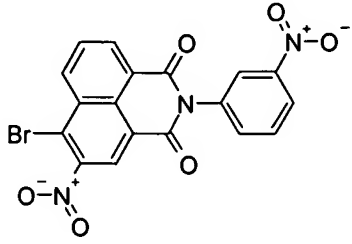
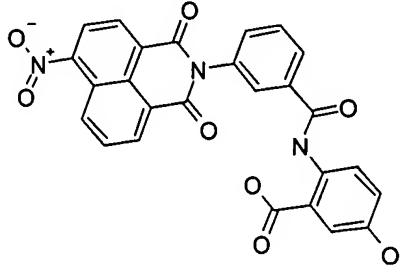
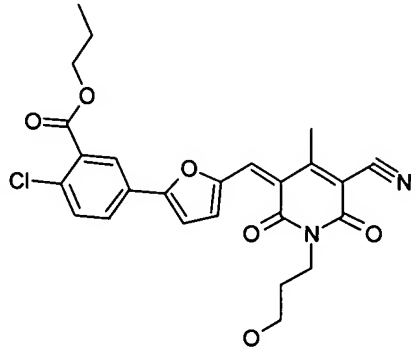
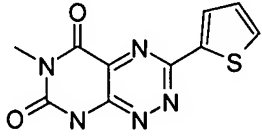
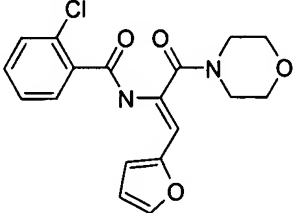
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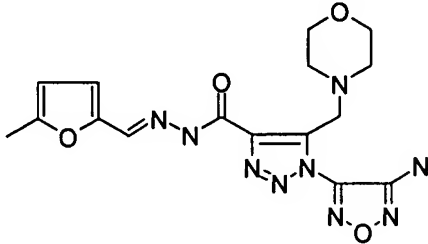
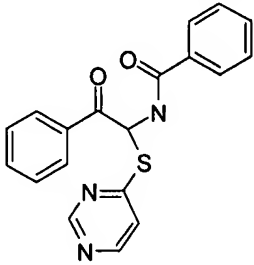
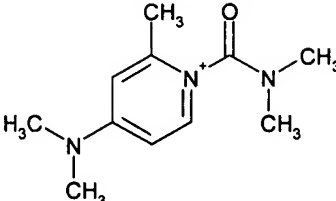
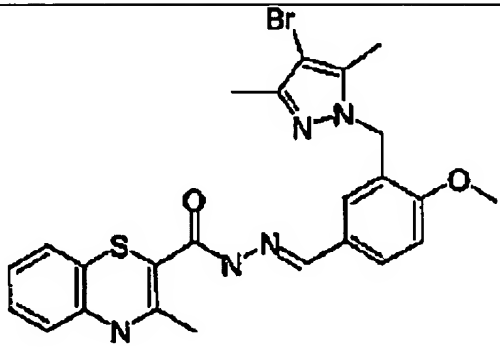
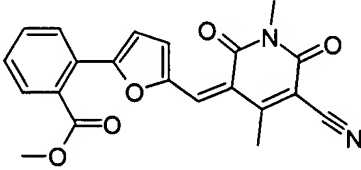
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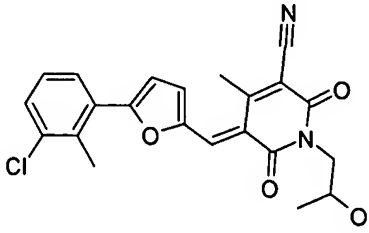
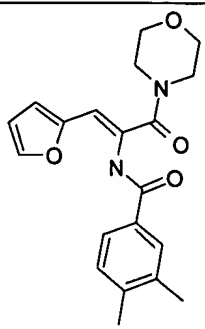
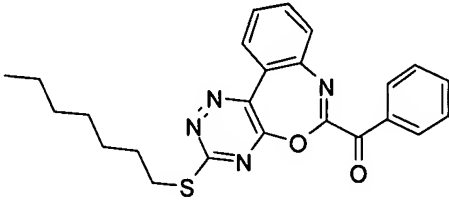
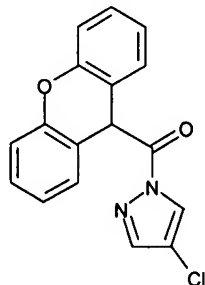
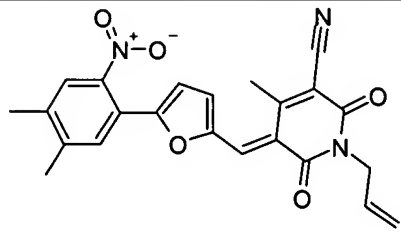
A9.048	 <p>Chemical structure of 2,6-dimethyl-1H-imidazo[4,5-b]pyridine-3-amine. It features a fused imidazopyridine ring system with methyl groups at positions 2 and 6, and an amino group at position 3.</p>
A9.049	 <p>Chemical structure of 1-ethyl-2-cyano-4-((4-chlorophenyl)methyl)-5-oxo-1,2,3,4-tetrahydropyridine-3-carbaldehyde. It consists of a tetrahydropyridine ring with a cyano group, an ethyl group, and a formyl group, connected via a methylene bridge to a 4-chlorophenyl ring.</p>
A9.050	 <p>Chemical structure of a complex molecule. It features a pyrimidine ring system connected to a furanose sugar derivative, which is further linked to a p-methoxyphenyl group and a nitrogen-containing side chain.</p>
A9.051	 <p>Chemical structure of 1-benzoyl-2-((4-oxo-4H-pyrimidin-2-yl)methyl)-N-methylpyrrolidine-3-carboxamide. It shows a pyrrolidine ring with a benzoyl group, a methyl group, and a carboxamide group, connected via a methylene bridge to a 4-oxo-4H-pyrimidin-2-yl group.</p>

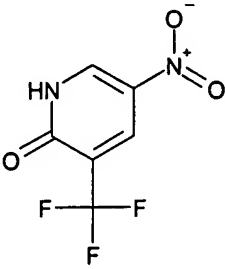
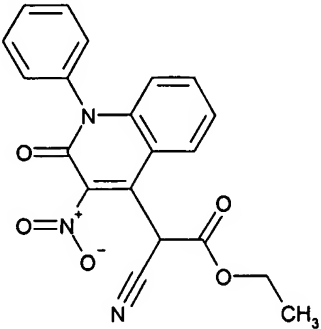
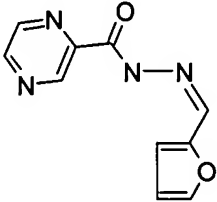
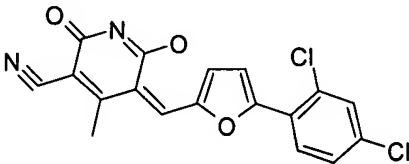
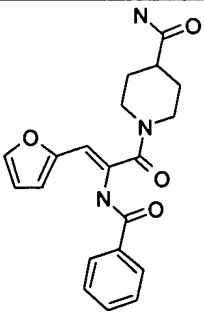
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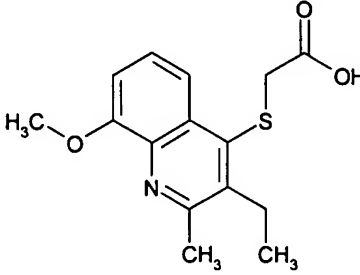
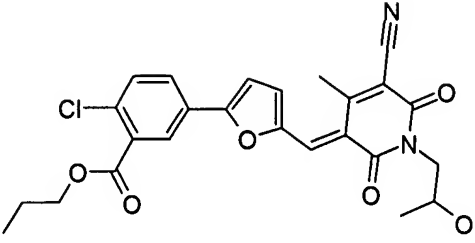
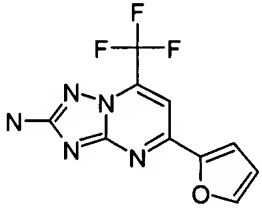
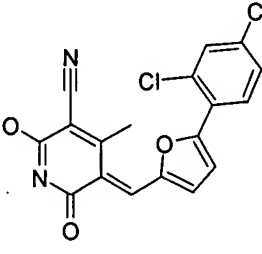
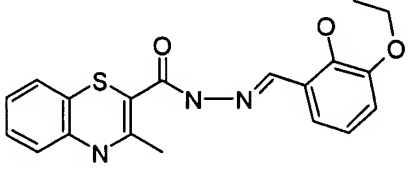
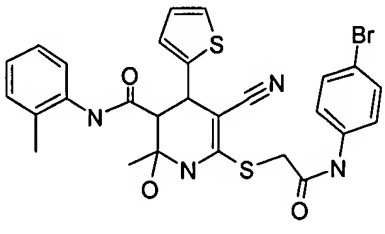
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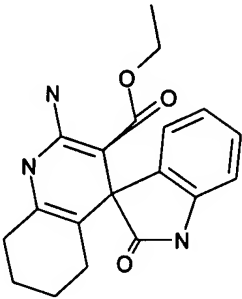
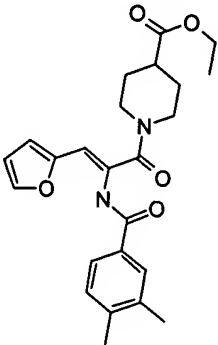
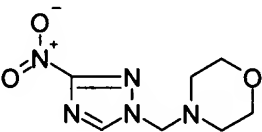
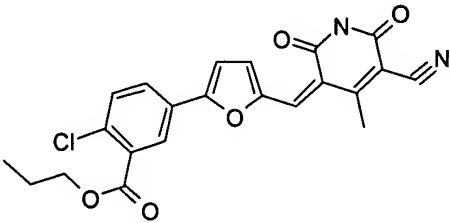
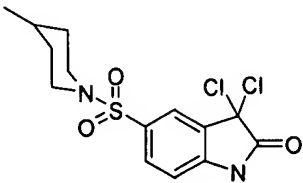
A9.062	 <p>Chemical structure of 2-bromo-4-nitro-1-(4-nitrophenyl)isoquinoline-3,8-dione. It features an isoquinoline-1,3-dione core with a bromine atom at position 2, a nitro group at position 4, and a 4-nitrophenyl group attached to the nitrogen at position 1.</p>
A9.063	 <p>Chemical structure of 1-(4-((4-chlorobenzoyl)amino)benzoyl)-4-nitroisoquinoline-3,8-dione. It features an isoquinoline-1,3-dione core with a nitro group at position 4 and a 4-((4-chlorobenzoyl)amino)benzoyl group attached to the nitrogen at position 1.</p>
A9.064	 <p>Chemical structure of 1-(4-((4-chlorobenzoyl)oxy)phenyl)-6-cyano-2-methyl-4-(3-ethoxy-5-chlorobenzoyl)-5,6-dihydro-1H-pyrimidin-2-one. It features a 5,6-dihydro-1H-pyrimidin-2-one core with a methyl group at position 2, a cyano group at position 6, and a 4-(3-ethoxy-5-chlorobenzoyl) group attached to the nitrogen at position 1. The pyrimidine ring is also substituted with a 4-((4-chlorobenzoyl)oxy)phenyl group at position 4.</p>
A9.065	 <p>Chemical structure of 1-methyl-2-(thiophen-2-yl)-4,6-dioxo-1,2,3,4-tetrahydropyrimidin-5-ylidenehydrazine. It features a 4,6-dioxo-1,2,3,4-tetrahydropyrimidin-5-ylidenehydrazine core with a methyl group at position 1 and a thiophen-2-yl group attached to the nitrogen at position 2.</p>
A9.066	 <p>Chemical structure of 1-(4-chlorobenzoyl)-N-(4-(furan-2-yl)phenyl)-2-(morpholin-4-yl)propanamide. It features a propanamide core with a morpholin-4-yl group attached to the nitrogen at position 2, a 4-(furan-2-yl)phenyl group attached to the nitrogen at position 1, and a 4-chlorobenzoyl group attached to the carbonyl carbon at position 1.</p>

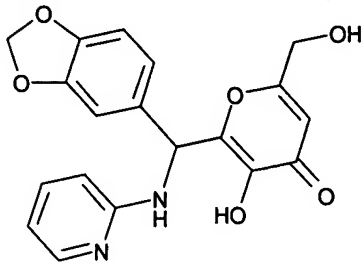
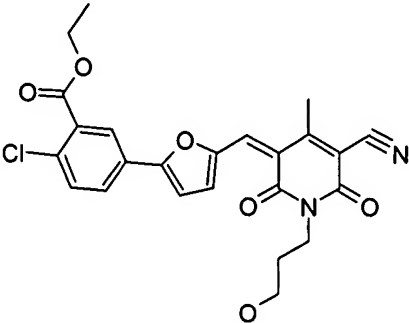
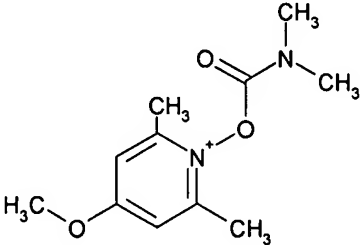
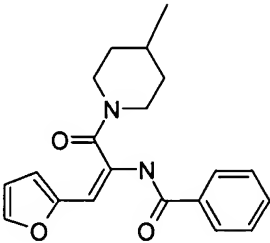
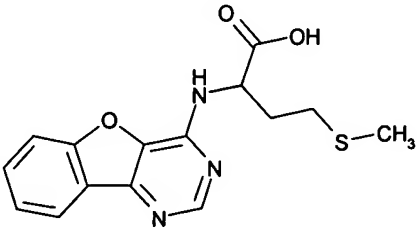
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A9.076	

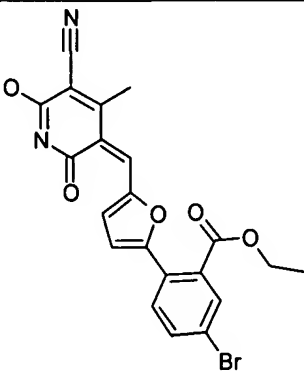
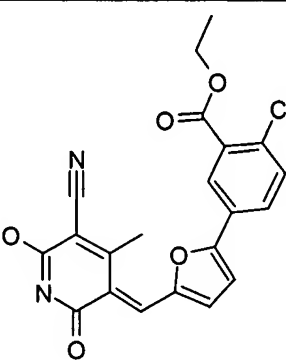
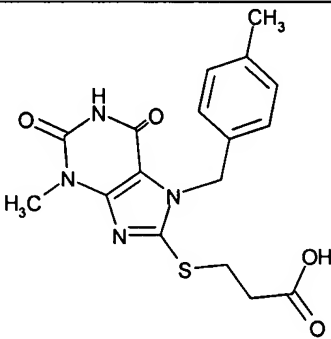
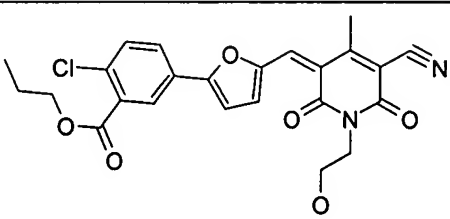
A9.077	 <chem>O=C1NC=CC(=C1C(F)(F)F)[N+](=O)[O-]</chem>
A9.078	 <chem>CCOC(=O)C(C#N)C1=C(C(=O)N1Cc2ccccc2)C(=C3C=CC(=CC=C3)[N+](=O)[O-])C4=CC=CC=C4</chem>
A9.079	 <chem>NC(=O)c1ccncc1N/N=C/c2ccoc2</chem>
A9.080	 <chem>Cc1c(C#N)c2nc(=O)cc2c1Cc3cc(oc3-c4cc(Cl)cc(Cl)c4)O</chem>
A9.081	 <chem>O=C1NC(=O)C(=C1Cc2ccoc2)NC(=O)c3ccccc3</chem>

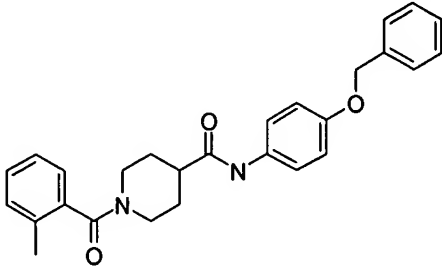
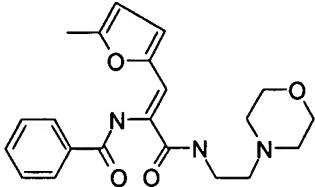
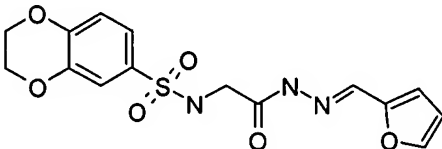
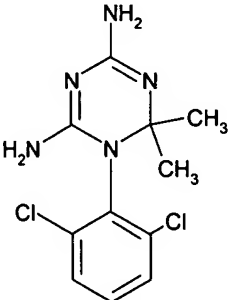
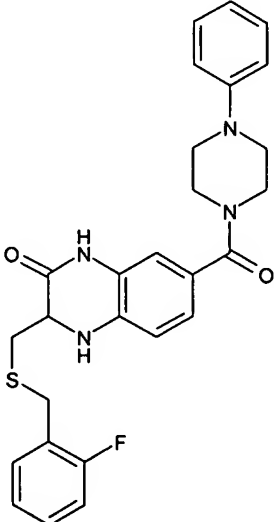
A9.082	 <chem>CCc1c(C)c2nc3ccc(OC)cc3c2s1CC(=O)O</chem>
A9.083	 <chem>CC(C)OC(=O)N1C(=O)C(C#N)=C1C=C2C(=C3C(=C(C=C3)OC(=O)C4=CC=C(C=C4)Cl)O2</chem>
A9.084	 <chem>COc1ccccc1n2nc3c(ncn32)C(F)(F)F</chem>
A9.085	 <chem>CC1=C(C#N)N(=O)C(=O)N1C=C2C(=C(C=C2)OC3=CC=C(Cl)C=C3</chem>
A9.086	 <chem>CC1=C2N(C(=O)N1)SC3=CC=CC=C3N2C=C4C(=C(C=C4)OC)C=N4</chem>
A9.087	 <chem>CC1(C)NC(=S1C#N)SC(=O)N2C(=C(C=C2)S3C=CC=C3)C(=O)N(C1)C4=CC=C(Br)C=C4</chem>

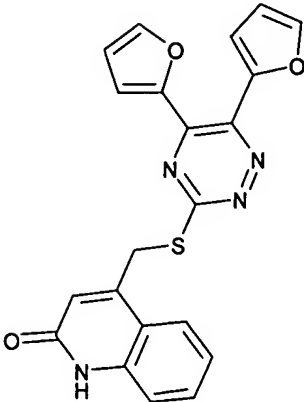
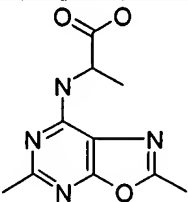
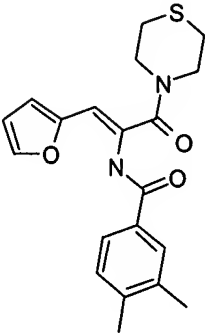
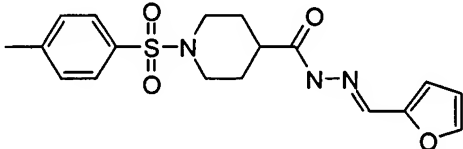
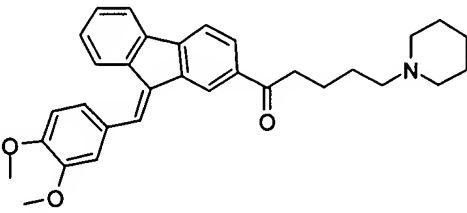
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A9.089	
A9.090	
A9.091	
A9.092	

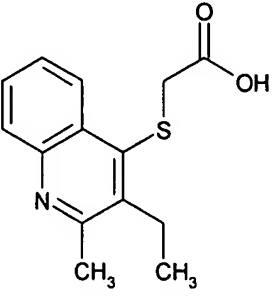
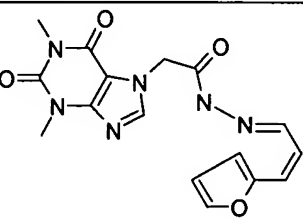
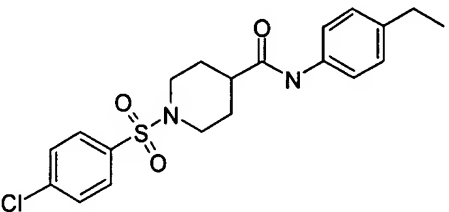
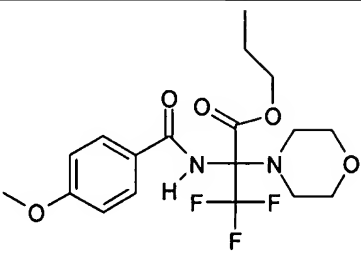
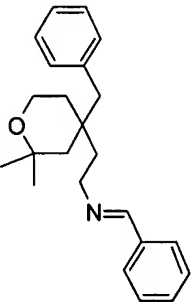
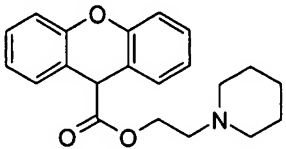
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A9.095	
A9.096	
A9.097	

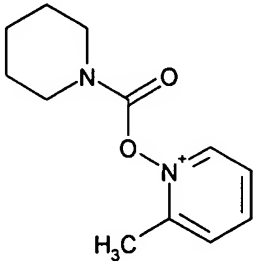
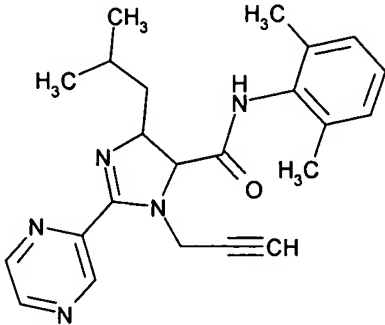
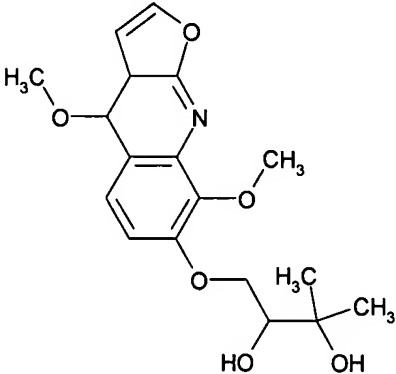
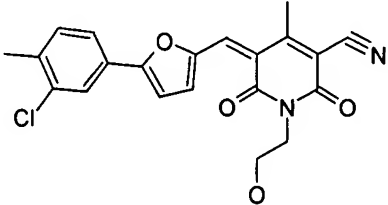
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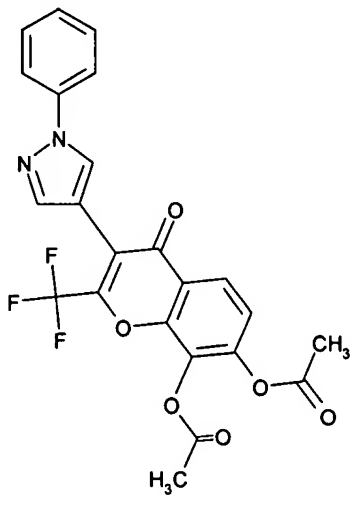
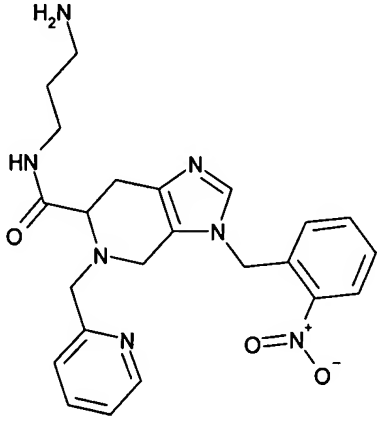
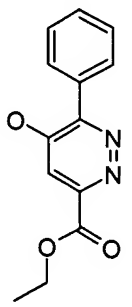
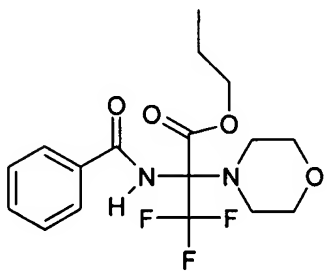
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A9.099	
A9.100	
A9.101	

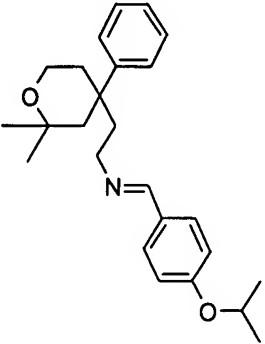
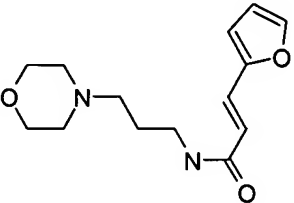
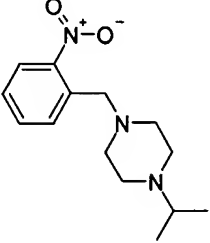
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A9.103	
A9.104	
A9.105	
A9.106	

A9.107	
A9.108	
A9.109	
A9.110	
A9.111	

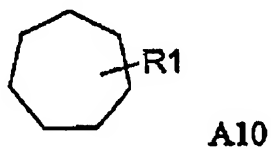
A9.112	 <chem>CC1=CC=C(C=C1)SCC(=O)O</chem>
A9.113	 <chem>O=C1C(=O)N(C)C(=O)N1CC(=O)N2C=CC3C=CC(=C3)O2</chem>
A9.114	 <chem>CC1=CC=C(C=C1)NC(=O)C2CCCN2S(=O)(=O)c3ccc(Cl)cc3</chem>
A9.115	 <chem>CCOC1=CC=C(C=C1)C(=O)N2C(=O)C(F)(F)F(C2)C3CCOCC3</chem>
A9.116	 <chem>CC1(C)C(CCN1C2=CC=CC=C2)CC3CCOCC3</chem>
A9.117	 <chem>C1CCN(C1)CCOC(=O)c2c3ccccc3oc2c4ccccc4</chem>

A9.118	 <chem>Cc1cccc([N+](=O)[O-]C(=O)N2CCCCC2)c1</chem>
A9.119	 <chem>CC(C)C1=CN=C(C#CCN2C(=N1)C3=CC=CC(=C3C(=O)N4C=CC=C4C)C5=CC=CC=C5C)C2</chem>
A9.120	 <chem>COc1cc2c(c1)oc3cc(OC)c(OC)c(OCc4c(C)cc(C)cc4O)c3n2</chem>
A9.121	 <chem>Cc1cc(Cl)ccc1-c1ccoc1C=C2C(=O)N(CC=O)C(=O)C2#N</chem>

A9.122	 <chem>CC(=O)OC1=CC=C2C(=C1)OC(=C(C2C3=CC=CC=C3N4C=CC=N4)C(F)(F)F)C5=CC=C(C=C5)OC(=O)C</chem>
A9.123	 <chem>NCCNC(=O)C1CN(CCN1Cc2ccncc2)Cc3ccccc3[N+](=O)[O-]</chem>
A9.124	 <chem>CCOC(=O)c1cc(C(=O)c2cc(C#N)nn2)cc(O)c1-c3ccccc3</chem>
A9.125	 <chem>CCOC(=O)C1(F)C(F)N(C(=O)N1C2=CC=CC=C2)C3=CC=CC=C3</chem>

A9.126	
A9.127	
A9.128	

19. Compounds of the general formula A10, which represents a substituted or unsubstituted basic homo- or heterocyclic structure having at least seven ring members:



wherein

- the residues R1 symbolize the substitution of the basic ring structure;
- the residues R1 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ al-

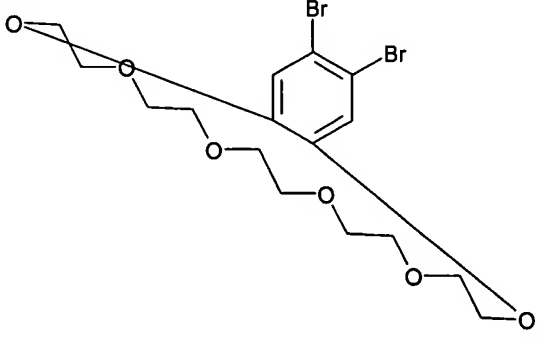
kylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and

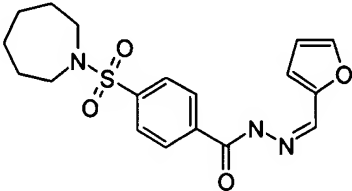
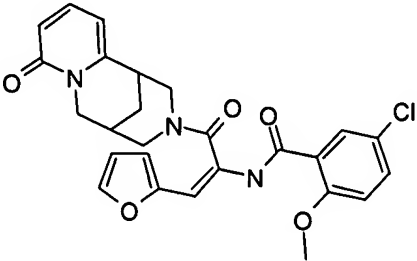
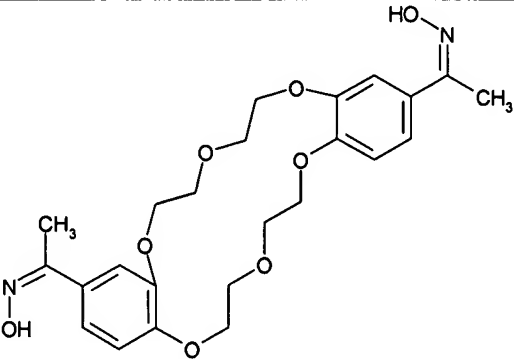
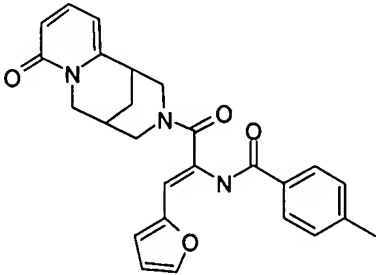
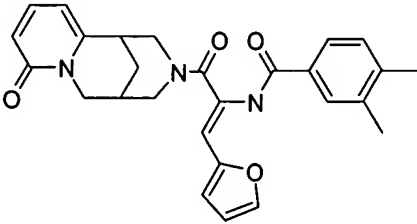
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A10 via a C atom or a hetero atom;

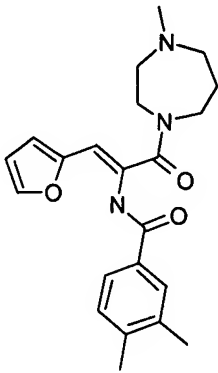
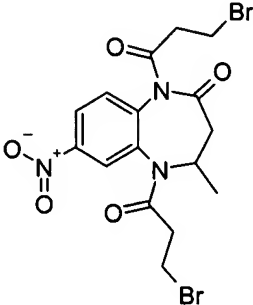
and tautomers, stereoisomers of the compounds of the general formula A10 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

20. The compounds of the general formula A10 according to claim 19 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A10 according to Table 10, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

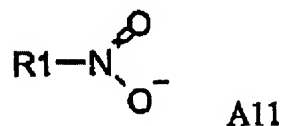
Table 10:

Compound ID.	Structure
A10.001	

A10.002	
A10.003	
A10.004	
A10.005	
A10.006	

A10.007	
A10.008	

21. Compounds of the general formula A11



wherein

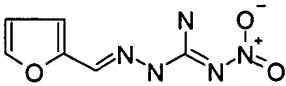
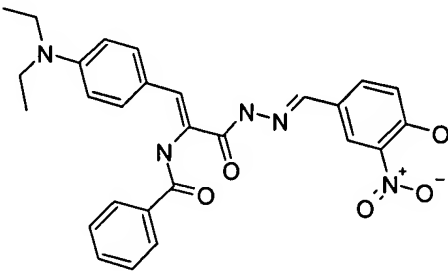
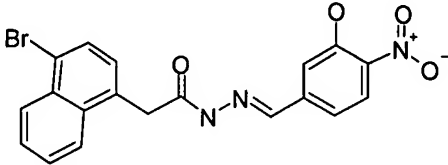
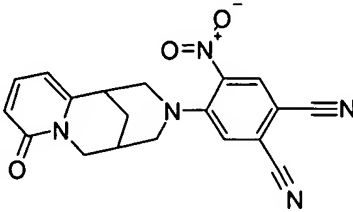
- R1 is selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A11 via a C atom or a hetero atom;

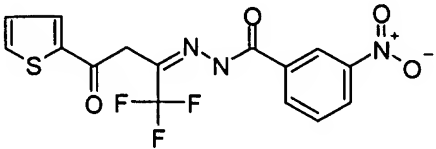
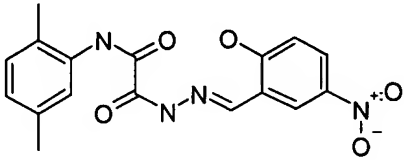
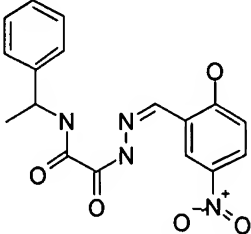
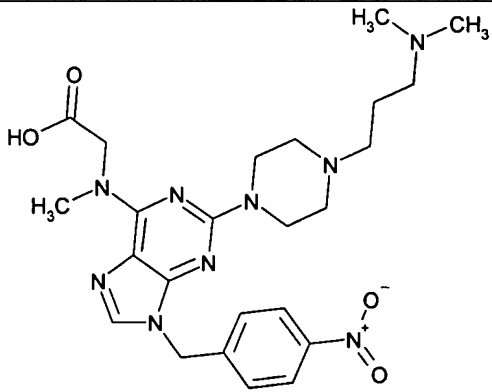
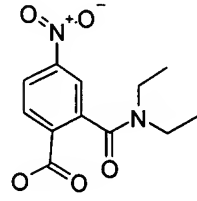
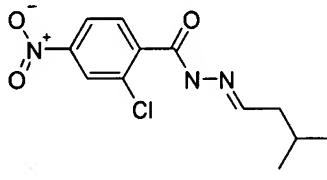
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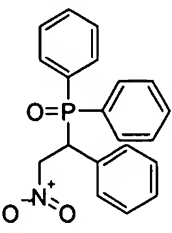
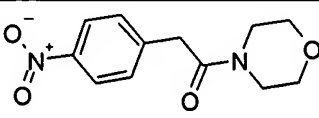
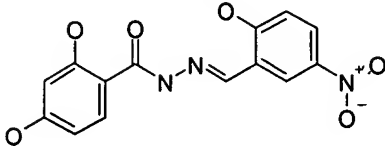
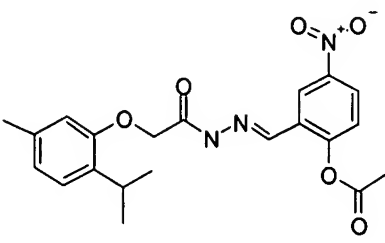
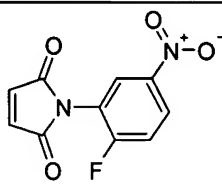
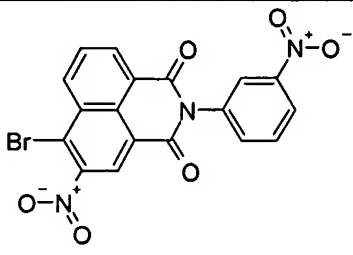
and tautomers, stereoisomers of the compounds of the general formula A11 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

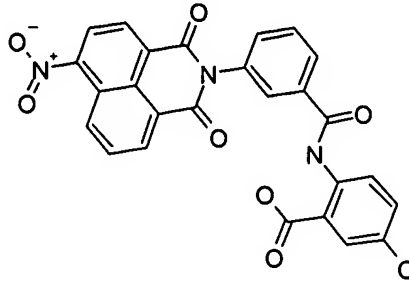
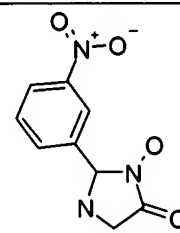
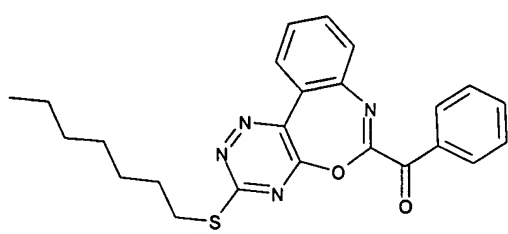
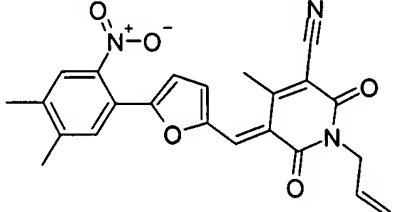
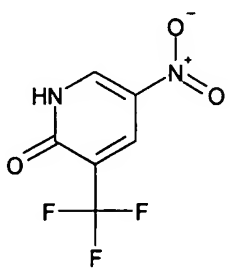
22. The compounds of the general formula A11 according to claim 21 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A11 according to Table 11, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

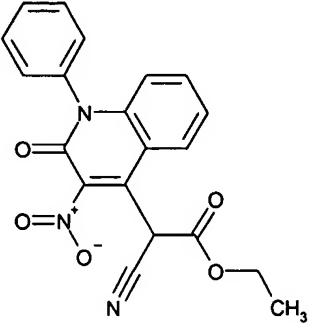
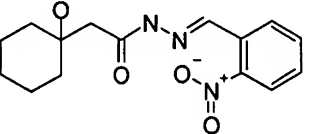
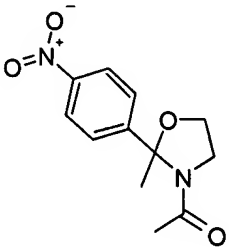
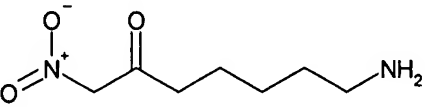
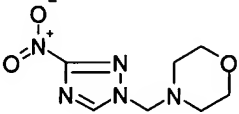
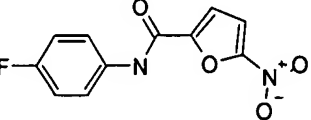
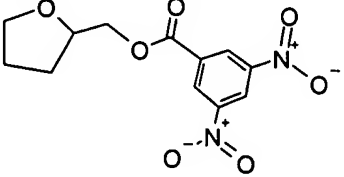
Table 11:

Compound ID.	Structure
A11.001	
A11.002	
A11.003	
A11.004	

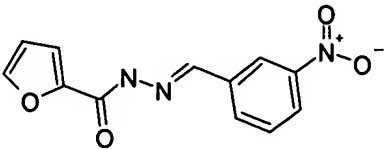
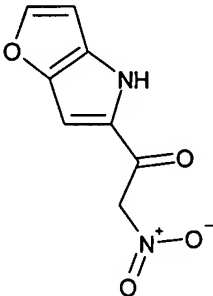
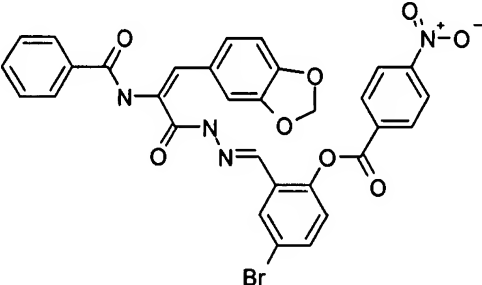
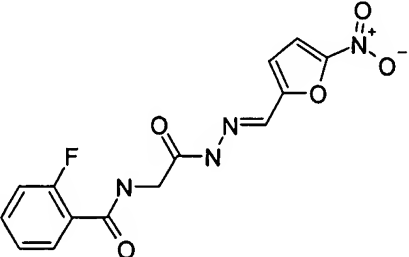
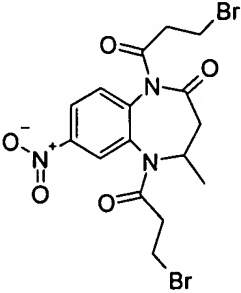
A11.005	
A11.006	
A11.007	
A11.008	
A11.009	
A11.010	

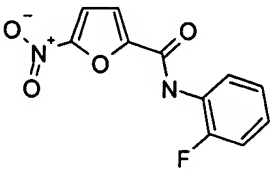
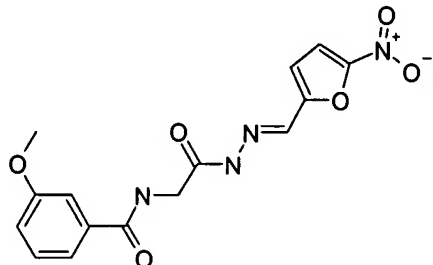
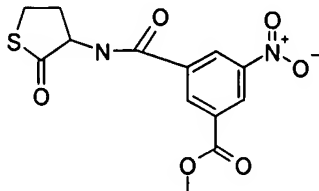
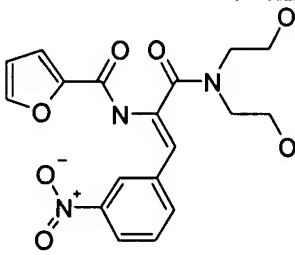
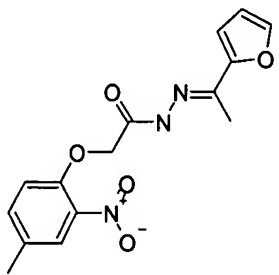
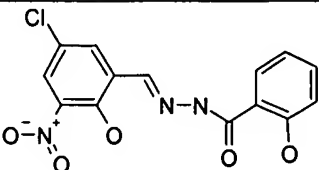
A11.011	
A11.012	
A11.013	
A11.014	
A11.015	
A11.016	

A11.017	
A11.018	
A11.019	
A11.020	
A11.021	

A11.022	
A11.023	
A11.024	
A11.025	
A11.026	
A11.027	
A11.028	

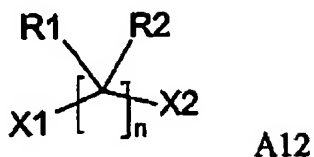
P29677.S01

A11.029	
A11.030	
A11.031	
A11.032	
A11.033	

A11.034	
A11.035	
A11.036	
A11.037	
A11.038	
A11.039	

P29677.S01

23. Compounds of the general formula A12,

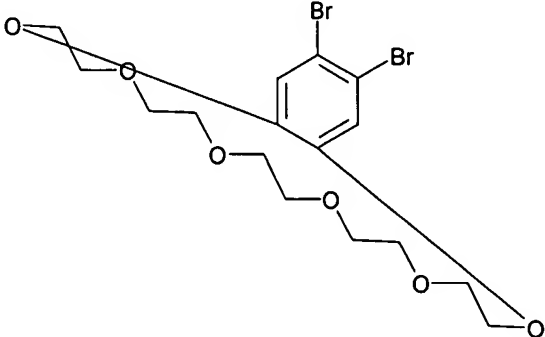
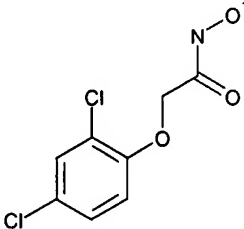
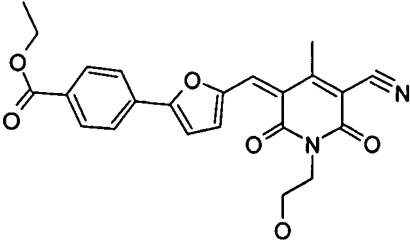
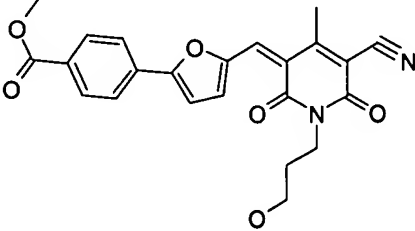


wherein

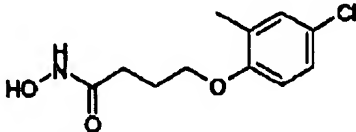
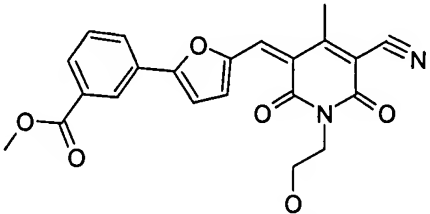
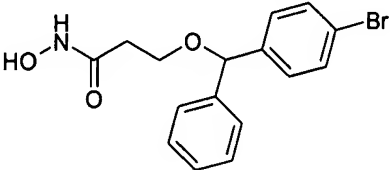
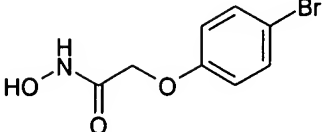
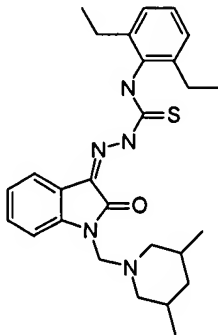
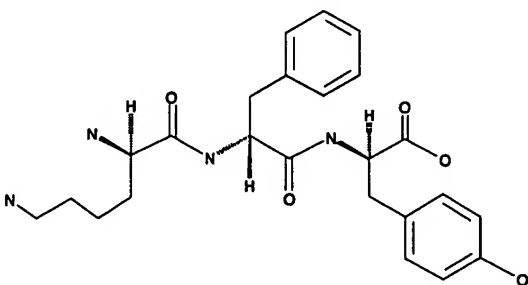
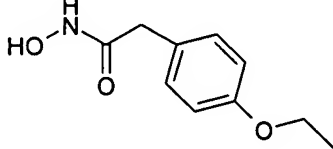
- R1 and R2 are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino;
- X1 and X2 may be identical or different and independent of each other are selected from the group consisting of hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atom(s) from the group N, O, P and S, hydroxy, thiol and amino (NH₂, HNR₁, NR₁R₂);
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A12 via a C atom or a hetero atom;
- n is the number of C atoms between X1 and X2 and may be between zero and four;
- the residues R1 and R2 may be identical or different, what concerns the number of C atoms of the bridge and different C atoms of the bridge;

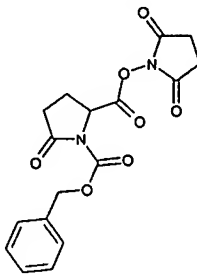
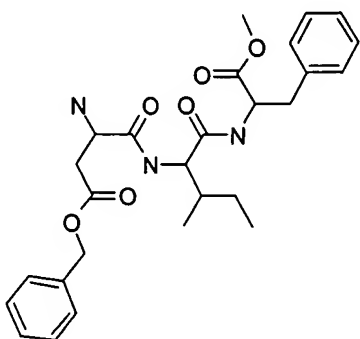
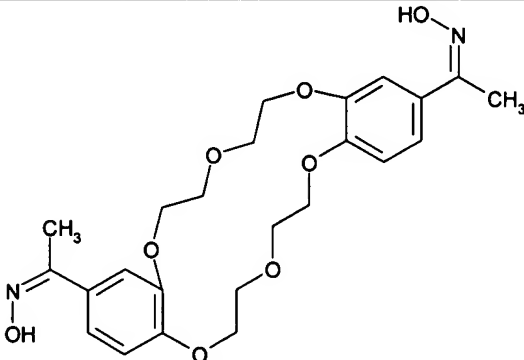
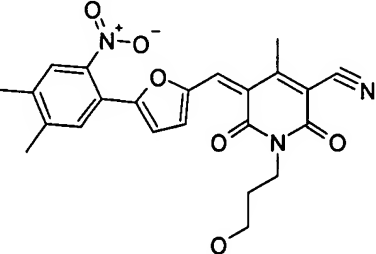
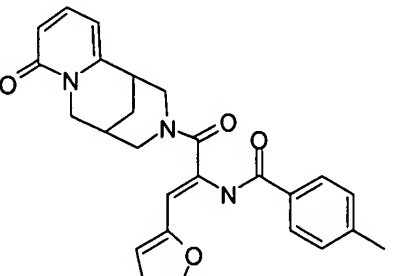
and tautomers, stereoisomers of the compounds of the general formula A12 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

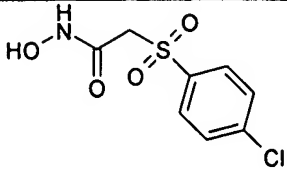
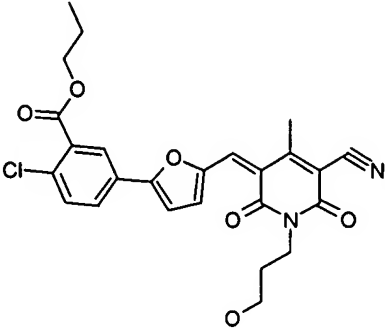
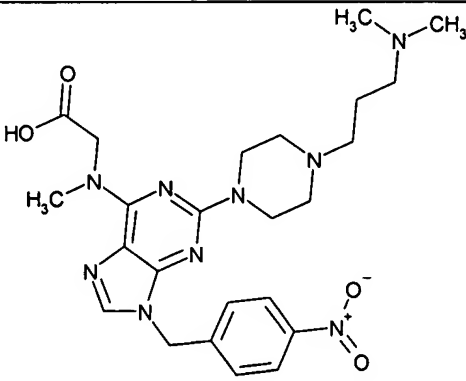
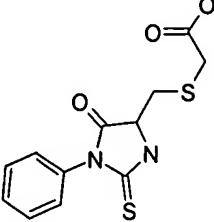
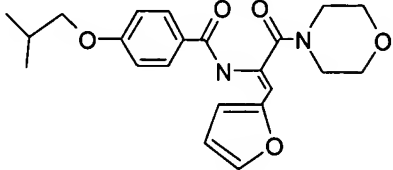
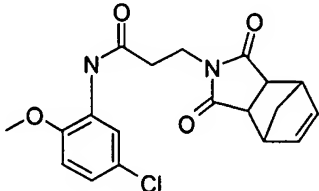
24. The compounds of the general formula A12 according to claim 23 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A12 according to Table 12, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

Compound ID.	Structure
A12.002	
A12.003	
A12.004	
A12.005	

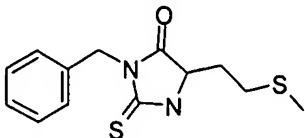
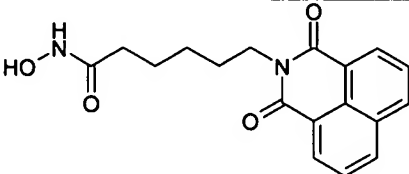
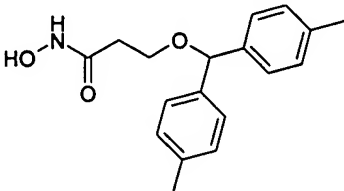
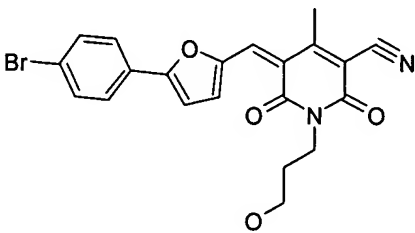
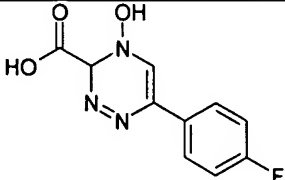
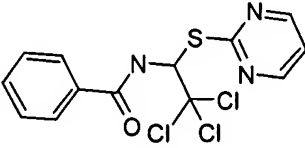
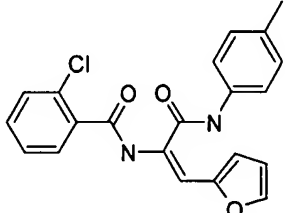
P29677.S01

A12.006	
A12.007	
A12.008	
A12.009	
A12.010	
A12.011	 Chiral
A12.013	

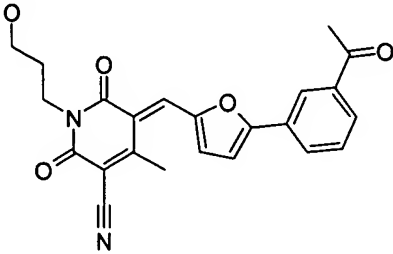
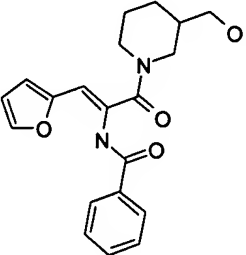
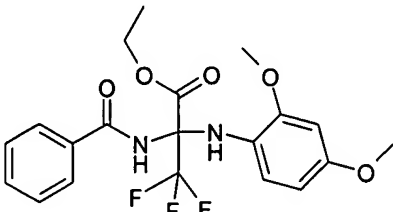
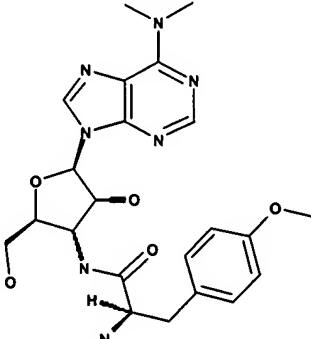
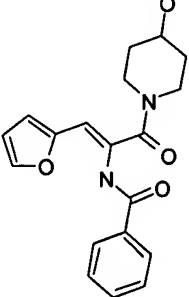
A12.015	 <chem>O=C1CC(=O)N1C(=O)OC2=CC=CC=C2C(=O)OC3CC(=O)N3</chem>
A12.016	 <chem>CC(C)C1=NC(=O)N(C1C(=O)OC2=CC=CC=C2)C(=O)N(C)C(=O)OC3=CC=CC=C3</chem>
A12.017	 <chem>CC(C)C1=NC(=O)N(C1C(=O)OC2=CC=CC=C2)C(=O)N(C)C(=O)OC3=CC=CC=C3</chem>
A12.018	 <chem>CC(C)C1=NC(=O)N(C1C(=O)OC2=CC=CC=C2)C(=O)N(C)C(=O)OC3=CC=CC=C3</chem>
A12.019	 <chem>CC(C)C1=NC(=O)N(C1C(=O)OC2=CC=CC=C2)C(=O)N(C)C(=O)OC3=CC=CC=C3</chem>

A12.021	 <chem>Clc1ccc(cc1)S(=O)(=O)CC(=O)N[C@@H](C(=O)O)C</chem>
A12.022	 <chem>CCOC(=O)c1ccc(Cl)cc1-c2ccoc2C=C3C(=O)N(CCCOC)C(=O)C3#N</chem>
A12.023	 <chem>CN(C)CCCN1CCCN1c2nc3c(ncn3Cn4cc(Cc5ccc([N+](=O)[O-])cc5)cc4)nc2C(=O)O</chem>
A12.024	 <chem>CC(=O)SCC1N2C(=O)N(C1=O)C2=O</chem>
A12.025	 <chem>CC(C)Oc1ccc(cc1)C(=O)N2C(=O)C(=Cc3ccoc3)N2C4CCOCC4</chem>
A12.026	 <chem>COc1ccc(Cl)cc1N2C(=O)CCN2C3C(=O)C4C(C3)C=C4</chem>

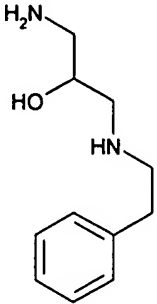
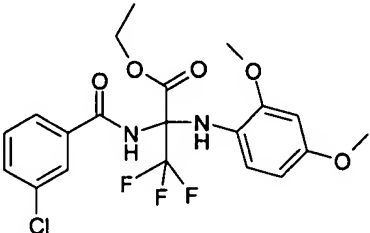
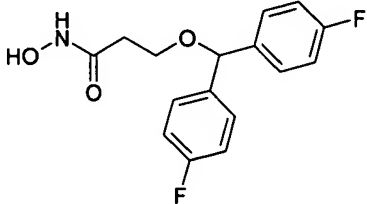
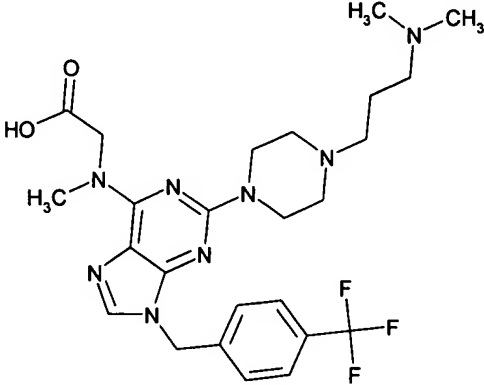
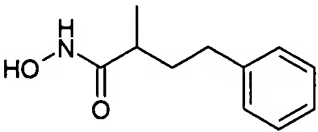
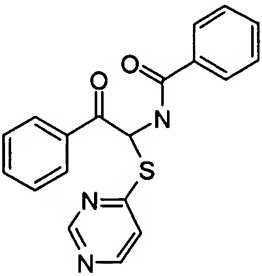
P29677.S01

A12.027	
A12.028	
A12.029	
A12.030	
A12.031	
A12.032	
A12.033	

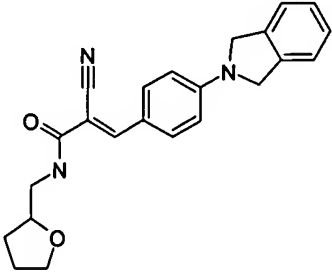
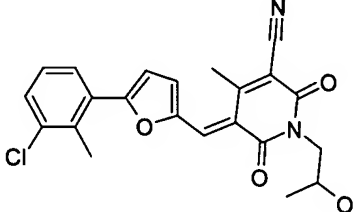
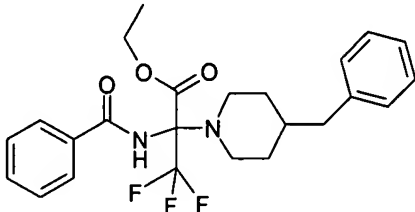
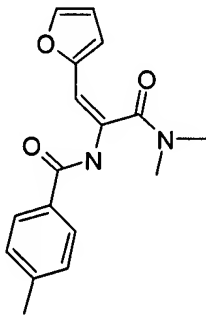
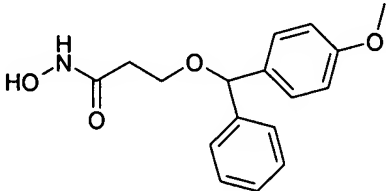
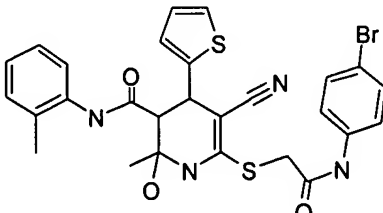
P29677.S01

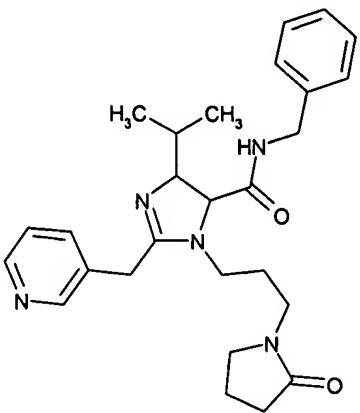
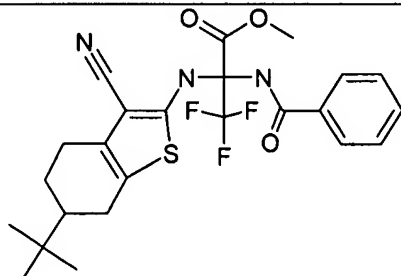
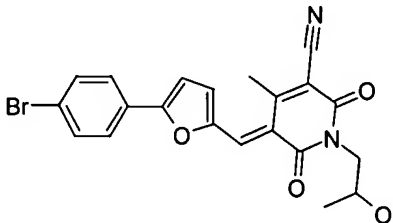
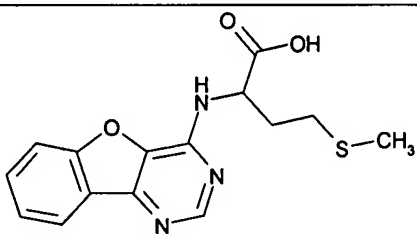
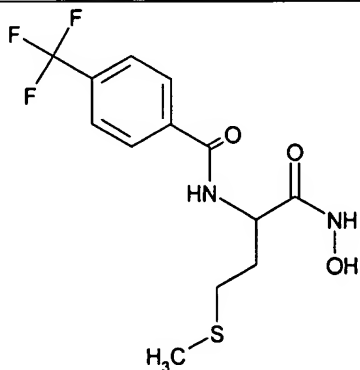
A12.034	
A12.035	
A12.036	
A12.037	
A12.038	

P29677.S01

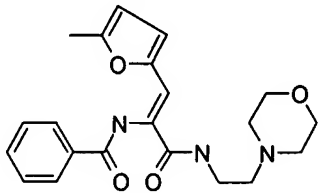
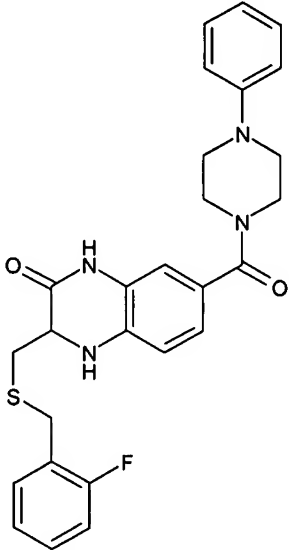
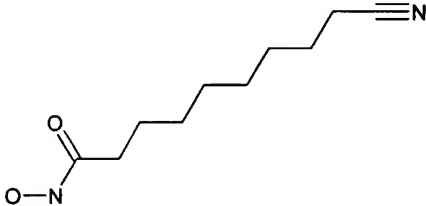
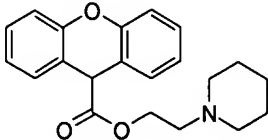
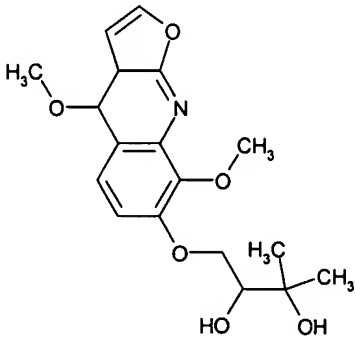
A12.039	 <chem>NCC(O)CNCC1=CC=CC=C1</chem>
A12.040	 <chem>CCOC(=O)C(F)(F)FNC(=O)c1ccc(Cl)cc1NC(=O)c2cc(OC)c(OC)cc2</chem>
A12.041	 <chem>ONC(=O)CCOC(c1ccc(F)cc1)c2ccc(F)cc2</chem>
A12.042	 <chem>CN(C)CCCN1CCN(C1)c2nc3c(ncn3CNC(=O)O)Cn4ccc(C(F)(F)F)cc4</chem>
A12.044	 <chem>ONC(=O)C(C)CCc1ccccc1</chem>
A12.045	 <chem>O=C(c1ccccc1)SC2=CC=CC=C2SC3=CC=CC=C3C(=O)N(C(=O)c4ccccc4)</chem>

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A12.047	
A12.048	
A12.049	
A12.052	
A12.053	
A12.054	

A12.055	 <chem>CC(C)N1C(=N)C(CCN1CCc2ccncc2)C(=O)NCc3ccccc3C4CCCN4C=O</chem>
A12.056	 <chem>COC(=O)N1C(F)(F)F1C(=N)C2=C(C#N)SC3=C2C(=C(C(C)(C)C)CC3)C(=O)C(=O)c4ccccc4</chem>
A12.058	 <chem>CC1(C)C(=O)N(CC1C(=O)C=Cc2ccoc2-c3ccc(Br)cc3)C(=O)N1C=CC2=C1C(=O)N2</chem>
A12.060	 <chem>CSCCC(C(=O)O)Nc1nc2nc3ccccc3oc2n1</chem>
A12.061	 <chem>CSCCC(NC(=O)c1ccc(C(F)(F)F)cc1)C(=O)NO</chem>

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A12.063	
A12.065	
A12.069	
A12.070	
A12.072	

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25. Compounds of the general formula A13,



wherein

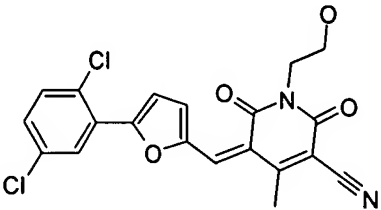
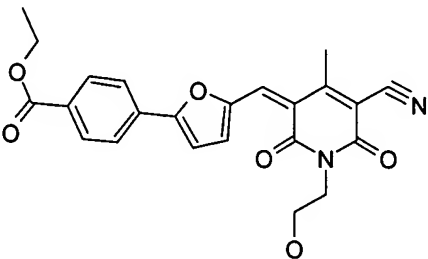
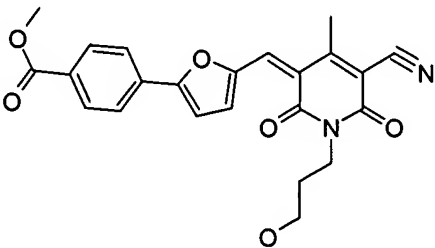
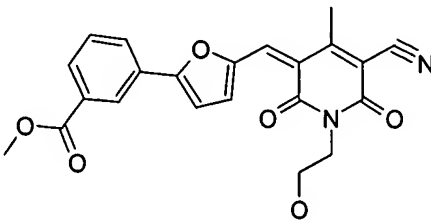
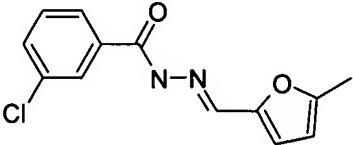
- R1 is selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A13 via a C atom or a hetero atom;

and tautomers, stereoisomers of the compounds of the general formula A13 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

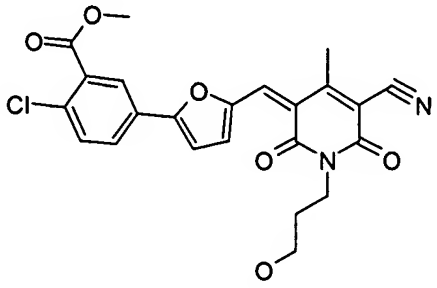
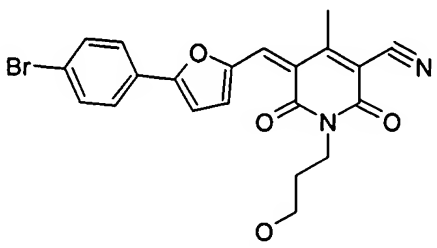
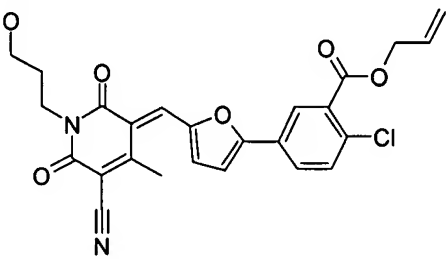
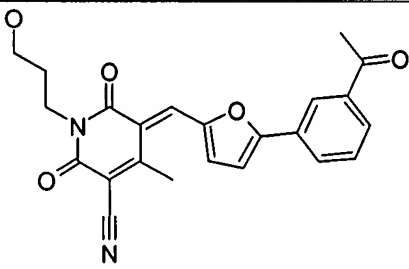
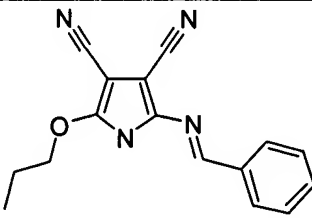
26. The compounds of the general formula A13 according to claim 24 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A13 according to Table 13, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

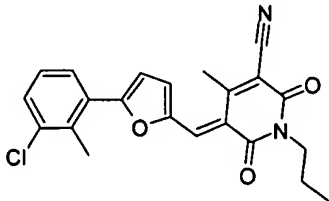
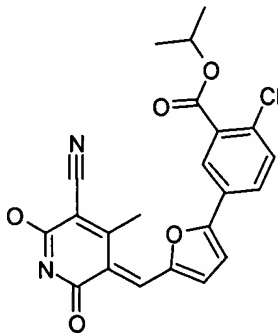
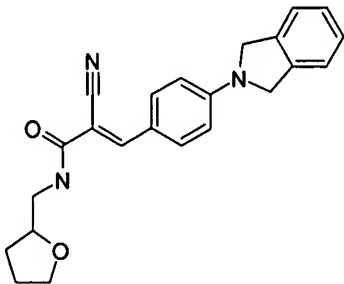
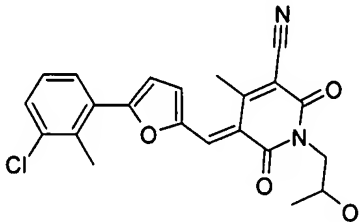
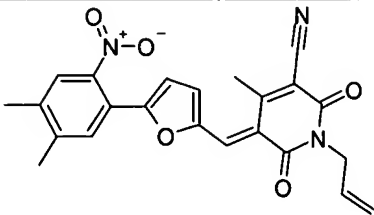
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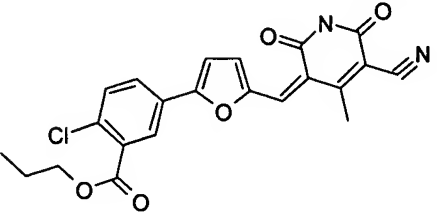
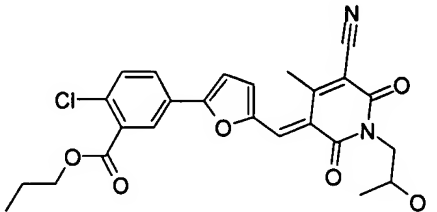
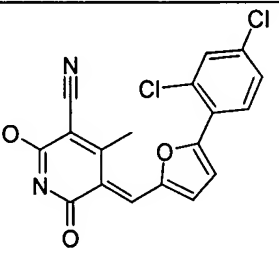
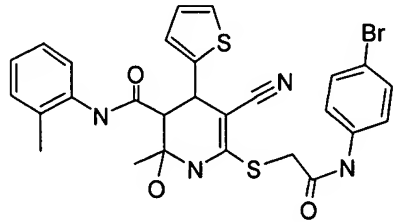
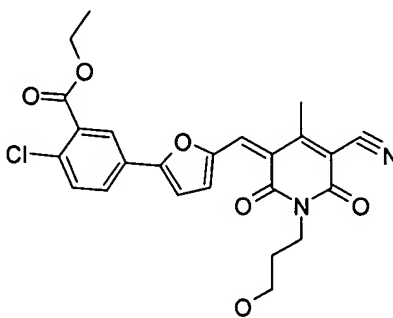
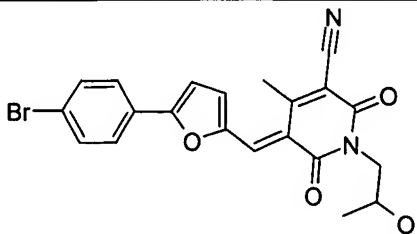
Table 13:

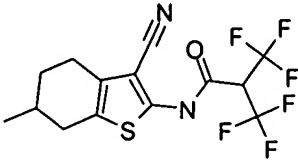
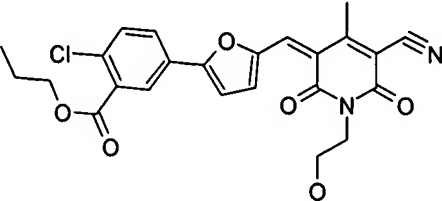
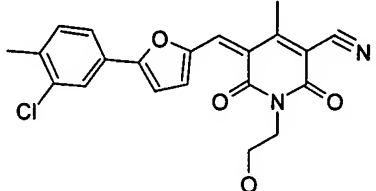
Compound ID.	Structure
A13.001	
A13.002	
A13.003	
A13.004	
A13.005	

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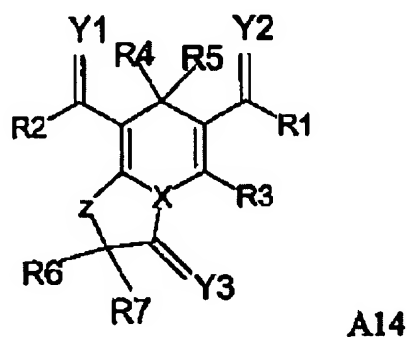
A13.006	
A13.007	
A13.008	
A13.009	
A13.010	

A13.011	
A13.012	
A13.013	
A13.014	
A13.015	

A13.016	
A13.017	
A13.018	
A13.019	
A13.020	
A13.021	

A13.022	
A13.023	
A13.024	

27. Compounds of the general formula A14,



wherein

- X represents N or CH or CR₈, P, P=O, P(OH)₂, P(OH)(OR₈) or P(OR₈)(OR₉), and Z represents NH, NR₁₀, O or S;
- Y₁, Y₂ and Y₃ independent of each other may represent O, S or NH, NR₁₁, NR₁₂ and NR₁₃;
- R₁ to R₁₃ are selected from the group consisting of hydrogen, unsubstituted or substituted, straight chain or branched C₁- to C₁₂ alkyl, C₂- to C₁₂ alkenyl and C₂- to C₁₂ alkynyl, hydroxy, thiol, C₁- to C₁₂ alkoxy, C₁- to C₁₂ alkylthio, unsubstituted or substituted, uncondensed or condensed aryl and cycloalkyl

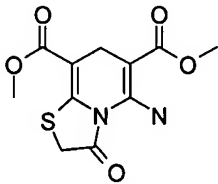
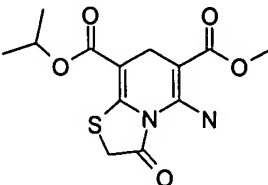
optionally containing one or several hetero atoms from the group N, O, P and S, unsubstituted or substituted amino, unsubstituted or substituted carbonyl, unsubstituted or substituted thiocarbonyl and unsubstituted or substituted imino; and

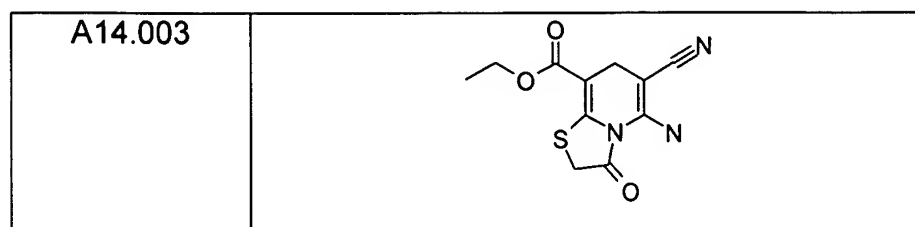
- the heteroaromatic or heterocyclic residues are bound to the basic structure of the general formula A14 via a C atom or a hetero atom;

and tautomers, stereoisomers of the compounds of the general formula A14 and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof, for a use in the medical field.

28. The compounds of the general formula A14 according to claim 27 for a use in the medical field, namely compounds for example, but not exclusively, selected from the following group A14 according to Table 14, and tautomers, stereoisomers of said compounds and pharmaceutically acceptable salts, salt derivatives, tautomers and stereoisomers thereof:

Table 14:

Compound ID.	Structure
A14.001	
A14.002	



29. Pharmaceutical composition, comprising at least one compound of one of the preceding claims 1 to 28, optionally in combination with known carriers or adjuvants.
30. Cosmetic composition, comprising at least one compound of one of the preceding claims 1 to 28, optionally in combination with known carriers or adjuvants.
31. Use of at least one compound or pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 for inhibiting the activity of alanyl aminopeptidases or of analogous enzymes alone or in combination with inhibitors of dipeptidyl peptidase IV or of analogous enzymes.
32. Use of at least one compound or pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 for topically influencing the activity of alanyl aminopeptidases or of analogous enzymes alone or in combination with inhibitors of dipeptidyl peptidase IV or of analogous enzymes.
33. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of multiple sclerosis, Morbus Crohn, Colitis ulcerosa and other autoimmune diseases as well as of inflammatory diseases.

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34. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of allergic asthma bronchiale and other allergic diseases.
35. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of a rejection of transplanted tissues and cells.
36. Use of at least one compound or of a pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of skin and mucosa diseases as, for example, psoriasis, acne as well as of dermatologic diseases associated with a hyperproliferation and changed differentiation states of fibroblasts, of benign fibrosing and sclerosing skin diseases and malign fibroblastar hyperproliferation states.
37. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of acute neuronal diseases, in particular ischemia-caused cerebral damages after a ischemic or hemorrhagic stroke, craniocerebral trauma, cardiac arrest, myocardial infarct or as a consequence of heart surgery.
38. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of chronic neuronal diseases, in particular Morbus Alzheimer, Pick's disease, of the Progressive Supranuclear Palsy, of a corticobasal degeneration, of the frontotemporal dementia, of Morbus Parkinson, in particular of Morbus Parkinson coupled to chromosome 17, of Morbus Huntington, of prion-caused diseases and of the amyotrophic lateral sclerosis.

39. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of atherosclerosis, arterial inflammation, stent restenosis, also in the form of medicament-coated stents, for example after a percutaneous transluminal angioplasty, and reperfusion syndrome.
40. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of inflammation reactions at, or caused by, medical-technical devices implanted into the organism (medical devices).
41. Use according to claim 40 in the form of a coating or a layer on the devices or a substance admixture of at least one of the compounds or compositions to the material of the devices or in the form of a local or systemic administration either successively or parallel in time.
42. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of chronic obstructive pulmonary diseases (Chronische Obstruktive Lungenerkrankungen; COPD).
43. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of prostata carcinoma and other tumors as well as of metastases.
44. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of the Heavy Acute Respiratory Syndrome (Schweres Akutes Respiratorisches Syndrom; SARS).

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45. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for a prophylaxis and therapy of sepsis and sepsis-like conditions.
46. Use of at least one compound or of a pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for inhibiting the activity of alanyl aminopeptidases or of analogous enzymes alone or in combination with inhibitors of the dipeptidyl peptidase IV or of analogous enzymes.
47. Use of at least one compound or of a pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for topically influencing the activity of alanyl aminopeptidases or of analogous enzymes alone or in combination with inhibitors of the dipeptidyl peptidase IV or of analogous enzymes.
48. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of multiple sclerosis, Morbus Crohn, Colitis ulcerosa and other autoimmune diseases as well as of inflammatory diseases.
49. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of allergic asthma bronchiale and other allergic diseases.
50. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of a rejection of transplanted tissues and cells.

51. Use of at least one compound or of a pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of skin and mucosa diseases as, for example, psoriasis, acne as well as of dermatologic diseases associated with a hyperproliferation and changed differentiation states of fibroblasts, of benign fibrosing and sclerosing skin diseases and malign fibroblastar hyperproliferation states.
52. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of acute neuronal diseases, in particular ischemia-caused cerebral damages after a ischemic or hemorrhagic stroke, cranio-cerebral trauma, cardiac arrest, myocardial infarct or as a consequence of heart surgery.
53. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of chronic neuronal diseases, in particular Morbus Alzheimer, Pick's disease, of the Progressive Supranuclear Palsy, of a corticobasal degeneration, of the frontotemporal dementia, of Morbus Parkinson, in particular of Morbus Parkinson coupled to chromosome 17, of Morbus Huntington, of prion-caused diseases and of the amyotrophic lateral sclerosis.
54. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of atherosclerosis, arterial inflammation, stent restenosis, also in the form of medicament-coated stents, for example after a percutaneous transluminal angioplasty, and reperfusion syndrome.

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55. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of inflammation reactions at, or caused by, medical-technical devices implanted into the organism (medical devices).
56. Use according to claim 55 in the form of a coating or a layer on the devices or a substance admixture of at least one of the compounds or compositions to the material of the devices or in the form of a local or systemic administration either successively or parallel in time.
57. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of chronic obstructive pulmonary diseases (Chronische Obstruktive Lungenerkrankungen; COPD).
58. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of prostata carcinoma and other tumors as well as of metastases.
59. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of the Heavy Acute Respiratory Syndrome (Schweres Akutes Respiratorisches Syndrom; SARS).
60. Use of at least one compound or of a pharmaceutical composition according to any of the preceding claims 1 to 30 for manufacturing a medicament for a prophylaxis and therapy of sepsis and sepsis-like conditions.

61. A process for inhibiting the activity of alanyl aminopeptidases or of analogous enzymes alone or in combination with inhibitors of dipeptidyl peptidase IV or of analogous enzymes by an administration of at least one compound of pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 in an amount required for an inhibition of the enzyme activity.
62. A process for topically influencing the activity of alanyl aminopeptidases or of analogous enzymes alone or in combination with inhibitors of dipeptidyl peptidase IV or of analogous enzymes by an administration of at least one compound of pharmaceutical or cosmetic composition according to any of the preceding claims 1 to 30 in an amount required for a topical influence on the enzyme activity.
63. A process for a prophylaxis and therapy of multiple sclerosis, Morbus Crohn, Colitis ulcerosa and other autoimmune diseases as well as of inflammatory diseases by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
64. A process for a prophylaxis and therapy of asthma bronchiale and other allergic diseases by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
65. A process for a prophylaxis and therapy of a rejection of transplanted tissues and cells as, for example, allogenic kidney or stem cell transplantation by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.

66. A process for a prophylaxis and therapy of skin and mucosa diseases as, for example, psoriasis, acne as well as of dermatologic diseases associated with a hyperproliferation and changed differentiation states of fibroblasts, of benign fibrosing and sclerosing skin diseases and malign fibroblastar hyperproliferation states by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
67. A process for a prophylaxis and therapy of acute neuronal diseases, in particular ischemia-caused cerebral damages after a ischemic or hemorrhagic stroke, craniocerebral trauma, cardiac arrest, myocardial infarct or as a consequence of heart surgery by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
68. A process for a prophylaxis and therapy of chronic neuronal diseases, in particular Morbus Alzheimer, Pick's disease, of the Progressive Supranuclear Palsy, of a corticobasal degeneration, of the frontotemporal dementia, of Morbus Parkinson, in particular of Morbus Parkinson coupled to chromosome 17, of Morbus Huntington, of prion-caused diseases and of the amyotrophic lateral sclerosis by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
69. A process for a prophylaxis and therapy of atherosclerosis, arterial inflammation, stent restenosis, also in the form of medicament-coated stents, for example after a percutaneous transluminal angioplasty, and reperfusion syndrome by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.

70. A process for a prophylaxis and therapy of inflammation reactions at, or caused by, medical-technical devices implanted into the organism (medical devices) by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
71. The process according to claim 70, wherein the administration is effected in the form of a local or systemic administration, either successively or parallel in time, of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30.
72. The process according to claim 70, wherein the administration is effected by the application of a coating or layer, on the devices, of at least one compound or composition according to any of the preceding claims 1 to 30 or of a substance admixture of at least one compound or composition according to any of the preceding claims 1 to 30 to the material of the devices.
73. A process for a prophylaxis and therapy of chronic obstructive pulmonary diseases (Chronische Obstruktive Lungenerkrankungen; COPD) by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
74. A process for a prophylaxis and therapy of prostata carcinoma and other tumors as well as of metastases by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.

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75. A process for a prophylaxis and therapy of the Heavy Acute Respiratory Syndrome (Schweres Akutes Respiratorisches Syndrom; SARS) by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.
76. A process for a prophylaxis and therapy of sepsis and sepsis-like conditions by an administration of at least one compound or pharmaceutical composition according to any of the preceding claims 1 to 30 in an amount required for a prophylactic or therapeutic treatment.